CONTENTS OF SUPPLEMENT.

PERSONAL 89
Obituary 89
ENGINEERING SOCIETIES 89
Coming General Meetings 89
NEW PUBLICATIONS 89
Trade Publications 89
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 89
Railways 89
Street and Electric Railways 90
Electric Light and Power 91
Bridges 91
Buildings 91
Water-Works 92
Sewerage 93
Garbage Disposal and Street Cleaning 93
Streets and Roads 94
Manufacturing Plants 94
Miscellaneous Contracts 94
Foreign Contracts and Export News 95
Contract Prices 96
INDUSTRIAL NOTES 96
New Companies 96

PERSONAL.

Mr. William G. Stone has resigned as Engineer of the new sewer system at Whitesboro, N. Y.

Mr. John B. Newton, formerly Chief Engineer of the Atlanta, Knoxville & Northern Ry., has been appointed General Manager of that road.

Mr. Oliver W. Childs, Chief Engineer of Stupp Bros. Bridge & Iron Works, St. Louis, Mo., was married on Sept. 15 to Miss Alma Wein, of that city.

Mr. George H. Jarvis, formerly Receiver and General Manager of the Louisville, Evansville & St. Louis Ry., has been appointed General Manager of the Wisconsin Central Ry.

Mr. John Hays Hammond, Mining Engineer, is visiting the United States for the purpose of inspecting mining property in Colorado, in which, it is reported, a British syndicate will invest.

Mr. E. F. Vincent, formerly of the Department of Public Works, Denver, Colo., has been appointed Resident Engineer of the Fort Worth & Denver City Ry. Co., with headquarters at Fort Worth, Texas.

Mr. W. F. Dixon has resigned as Chief Engineer of the Sormovo Works at Nijni-Novgorod, Russia, and has accepted a position with the Singer Mfg. Co. His address is Podolsk, Moscow Government, Russia.

Mr. W. O. DeWitt has resigned as Superintendent of the Lykens & Williams Valley Light, Heat & Power Co., to accept a position as Constructing Engineer for the Harrisburg Foundry & Machine Co. He will be succeeded in the former position by Mr. William Troup, lately Electrician for the Lembury & Northumberland Electric St. Ry. Co.

Mr. Henry H. Quimby, M. Am. Soc. C. E., has resigned as Chief Engineer of the Phœnix Iron Works, Phœnixville, Pa., and has established the Quimby Engineering Co., with offices at 915 Ridge Ave., Philadelphia, Pa. The new firm will engage in Consulting Civil and Mechanical Engineering, and will take up the manufacture of Shaw's mercury pressure and vacuum gages, succeeding Thomas Shaw, M. E.

The following new appointments have been made at Yale University: James M. Toumey, Assistant Professor in the School of Forestry; Dr. Percy F. Smith, Professor in Sheffield Scientific School; Dr. Percy J. Walden, Assistant Professor of Chemistry; Dr. Harry A. Bumstead, Assistant Professor of Physics; Dr. George P. Starkweather, Assistant Professor of Applied Mechanics; Harry W. Foote, Instructor in Chemistry.

OBITUARY.

Capt. George Platt, formerly City Engineer of Erie, died on Sept. 8 at his home in Erie, Pa.

Mr. Charles L. Fuller, who for 30 years was City Engineer of Troy, N. Y., died at his home in that city on Sept. 14.

Mr. Elisha Turner, President of the Turner & Seymour Mfg. Co., of Torrington, Conn., died on Sept. 14 at his home in that city.

Mr. Robert B. Campbell, one of the builders of the Hoosac Tunnel, died on Sept. 12 at Yeadon, Pa. Mr. Campbell built the Pennsylvania R. R. shops at Altoona, Pa.

Rear Admiral Montgomery Sicard died at his home near Rome, N. Y., Sept. 14. Admiral Sicard graduated from the Naval Academy in 1855 and was retired from the Navy on reaching the age limit in 1898. At the beginning of the Civil War he was executive officer of the "Oneida," and after the engagement with the Vicksburg batteries in 1862 he was made Lieutenant-Commander, which rank he held during the remainder of the war. In 1881 he was made Chief of the Bureau of Ordnance, which position he held until 1890, when he was appointed President of the Steel Board. In 1894 he was placed in command of the Portsmouth, N. H., Navy Yard, and later he was made Commodore and placed in command of the Brooklyn Navy Yard. During the Spanish War he was President of the Naval War Board of Strategy.

ENGINEERING SOCIETIES

COMING GENERAL MEETINGS.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 25 to 27. Annual meeting at Pittsburg, Pa. Secy., Geo. H. F. Cottel, City Electrician, Boston, Mass.
PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 10 and 11. Annual meeting at Reading, Pa. Secy., S. P. Light, Lebanon, Pa.
AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 16 to 19. Annual meeting at Kansas City, Mo. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.
AMERICAN INTERNATIONAL ASSOCIATION OF RAILROAD SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 16. Annual meeting at St. Louis, Mo. Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 17 to 19. Annual meeting at Denver, Colo. Secy., Alfred E. Forstall, 58 William St., New York city.
AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 18. Annual meeting at New York city. Secy., C. A. Hammond, Asbury Park, N. J.
AMERICAN RAILWAY ASSOCIATION.
Oct. 24. Annual meeting at Boston, Mass. Secy., W. F. Allen, 24 Park Place, New York city.
INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.
ROADMASTERS' ASSOCIATION OF AMERICA.
Nov. 13. Annual meeting at Los Angeles, Cal. Secy., J. B. Dickson, Sterling, Ill.

AMERICAN GAS LIGHT ASSOCIATION.—The annual meeting will be held at Denver, Colo., Oct. 17 to 23. The following papers are on the program: "The Use of Cards for Records and Accounts," by Wm. C. Anderson, Norristown, Pa.; "Inclined Retorts," by A. H. Barret, Louisville, Ky.; "Gas Advertising," by C. R. Collins, Seattle, Wash.; "The Uses of Gas for Manufacturing Purposes," by Jas. H. Walker, Milwaukee, Wis.; "Municipal Control of the Price of Gas," by Alfred E. Forstall, Montclair, N. J. A lecture will be delivered to the association by Dr. E. G. Love, of New York city, upon "The Theory of the Incandescent Gas Light." In addition to the papers and lecture the report of the Research Committee will deal with the question of the Edgerton Standard referred to the committee at the last meeting.

Alfred E. Forstall, Secy.

NEW PUBLICATIONS.

THE BACTERIAL TREATMENT OF SEWAGE IN ENGLAND.—By Wm. Easby, Jr. Published by the Author, University of Pennsylvania, Philadelphia, Pa. Paper; 6 x 9 ins.; pp. 172; tables and illustrations.

This is a reprint of a paper read before the Engineers' Club of Philadelphia, May 19, 1900. The author considers the septic-tank process, the contact-bed system, and the Garfield coal filters.

REACTIONS IN SWING-BRIDGE TRUSSES.—By Willis Whited. Pamphlet; 6 x 9 ins.; pp. 23.

This is a reprint of a paper by a well-known bridge designer, read before the Engineers' Society of Western Pennsylvania in February last. Copies can be obtained, we presume, from the author, whose address is 286 Main St., Pittsburg, Pa.

EIN LENKBARER FLUG-APPARAT.—By Constantin Danilewsky. Published by the Author at Charkow, Russia; illustrated. 50 cts.

This pamphlet is devoted to the subject of mechanical flight. The apparatus devised and constructed by the author is described and illustrated. It is a dirigable balloon, the car being attached to the gas bag in a novel manner.

PROCEEDINGS OF THE WESTERN RAILWAY CLUB.—Published by the Club, Chicago, Ill. Cloth; 6½ x 9 ins.; pp. 430; tables and illustrations.

This book contains the official proceedings of the Western Railway Club for the club year 1899-1900. Besides reports of committees and similar matter, there are papers and discussions on the following subjects: "Locomotive Front Ends," "The Smoke Nuisance and the Abatement Thereof," "A Typical Box-Car," "Piece Work in a Railroad Shop," "The Pooling of Locomotives," "Patents, What They Are Not," "The M. C. B. Knuckle," "What Does it Cost to Run Trains at High Speed?" "Boiler Feed-Waters," "Ton-Mile Statistics," "Suggestions for Revision of the M. C. B. Rules for Loading Long Material," "Purchasing Under Specifications," "Notes on a Bending Test of the M. C. B. Arch-Bar Truck," "Handling Storehouse Materials," "Locomotive Road Tests."

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3¾x6 ins., 6x9 ins., and 9x12 ins.)

INDUCTION MOTORS.—Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Paper; 7 x 10 ins.; pp. 24; illustrated.

This pamphlet describes polyphase induction motors of Type C of the above company. These motors are built for constant speed and are arranged for direct coupling. The stationary winding is the primary.

REFRIGERATING MACHINERY.—Hunt Air-Brake Co., New Kensington, Pa. Paper; 5 x 7 ins; illustrated.

The above company manufactures ice and refrigerating machinery of from 1 to 15 tons capacity and suitable for use in hotels, restaurants or for any purpose where refrigeration is desired. The machines are designed to use ammonia and the "cold" is distributed by a circulation of brine. The machines may be driven by small steam engines or by electric motors.

COMMUTATOR TRUING DEVICE.—Fort Wayne Electric Works, Fort Wayne, Ind. Paper; 8 x 10½ ins.; pp. 8; illustrated.

This is a device for truing up the commutators of electric generators and motors. It may be clamped to the frame of a machine and when the armature shaft is turned the commutator will be turned off as in a lathe. If the armature has been removed from the machine the device may be clamped loosely to the shaft and rotated while the cutting tool bears upon the commutator face. The feed of the tool is automatic.

LIGHTNING ARRESTERS. — General Electric Co., Schenectady, N. Y. Paper; 5 x 7½ ins.; pp. 20; illustrated.

The arresters intended for direct current circuits are of the well-known magnetic blow-out type. Those for alternate current circuits of high potential are arranged with very short air gaps between heavy metallic cylinders in series with graphite resistances. When the lightning flash has passed, the graphite resistance cuts down the generator current, which, together with the cooling effect of the cylinders, causes the arc to be extinguished.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Sept. 20.	Bridges, etc. (5)	Albany, N. Y.	Sept. 13
Sept. 20.	Well	Randolph, Neb.	Sept. 13
Sept. 20.	Electric plant	Natchitoches, La.	Sept. 6
Sept. 20.	Water-works, etc.	Natchitoches, La.	Sept. 6
Sept. 20.	Water-works	Laurel, Md.	Sept. 6
Sept. 20.	Sewer	Scranton, Pa.	Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 20.	Power building, etc.	Farmington, Mo.	Sept. 20
Sept. 20.	School building	Hartford, Conn.	Sept. 20
Sept. 21.	Switchboards, etc.	New London, Conn.	Sept. 6
Sept. 22.	Naval building	New York, N. Y.	Sept. 6
Sept. 22.	Brick sewers (2)	Zanesville, O.	Sept. 6
Sept. 22.	Fire apparatus	Pittsburg, Pa.	Sept. 20
Sept. 24.	Fireproofing building	Cleveland, O.	Sept. 6
Sept. 24.	Hotel	Memphis, Tenn.	Sept. 13
Sept. 24.	Soft lead (40,000 lbs.)	Holyoke, Mass.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 24.	Fire station and jail	Lorain, O.	Sept. 13
Sept. 24.	Pipe sewers (300 ft.)	Providence, R. I.	Sept. 20
Sept. 24.	Removing wreck	Detroit, Mich.	Sept. 20
Sept. 24.	Steam heating plant	New York, N. Y.	Sept. 20
Sept. 24.	Bridge	Monroe, Ga.	Sept. 20
Sept. 24.	School house, etc.	New York, N. Y.	Sept. 20
Sept. 25.	Piles	New London, Conn.	Sept. 20
Sept. 25.	Electric plant	Vineland, N. J.	Sept. 20
	Advertised, Engineering News, Sept. 20.		
Sept. 25.	Electric plant	Thief River Falls, Minn.	Sept. 20
Sept. 25.	Altering building	Albany, N. Y.	Sept. 20
Sept. 25.	Water tower, tank etc.	Smithfield, Va.	Sept. 20
	Advertised, Engineering News, Aug. 30.		
Sept. 25.	Pumping plant, etc.	Vineland, N. J.	Sept. 20
	Advertised, Engineering News, Sept. 20.		
Sept. 25.	Library building	Newport, Ky.	Sept. 20
Sept. 25.	Electric plant	Neoga, Ill.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		
Sept. 25.	Combination bridges	Grand Island, Neb.	Sept. 13
Sept. 25.	Steel bridge	Meadowview, Va.	Sept. 13
Sept. 25.	Water-works, etc.	Neoga, Ill.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		
Sept. 25.	Water-works	St. Mary's, W. Va.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 25.	Bonds	Neoga, Ill.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		
Sept. 25.	Officers' quarters, and hospital	Ft. Keogh.	Sept. 13
Sept. 25.	State building	Buffalo, N. Y.	Sept. 6
Sept. 25.	Water main	Hammond, Ind.	Sept. 6
Sept. 25.	Army ranges	Jeffersonville, Ind.	Sept. 6
Sept. 25.	Dredging	Boston, Mass.	Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.		
Sept. 25.	Hospital buildings	Gallipolis, O.	Aug. 30
Sept. 25.	Pipe sewers	Bowling Green, O.	Aug. 16
Sept. 25.	Dam, etc.	Clinton, Mass.	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 26.	Asphalt paving, etc.	Hoboken, N. J.	Aug. 23
Sept. 26.	Dredging	New York, N. Y.	Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.		
Sept. 26.	Asphalt paving	Cincinnati, O.	Sept. 6
Sept. 26.	Road improvement	Albany, N. Y.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 26.	Water-works	Marshall, Ill.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		
Sept. 26.	Water-works	Bloomfield, Neb.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 26.	Sewers	New York, N. Y.	Sept. 20
Sept. 26.	Bridge	Hampton, Va.	Sept. 20
Sept. 27.	Ditch	Canton, O.	Sept. 20
Sept. 27.	Sewers	New York, N. Y.	Sept. 20
Sept. 27.	School house	Providence, R. I.	Sept. 20
Sept. 27.	Steward's quarters	Madison Barracks, N.Y.	Sept. 20
Sept. 27.	Bridge	Hillsboro, Mo.	Sept. 20
Sept. 27.	U. S. building	Menominee, Mich.	Aug. 23
Sept. 28.	Pumping engine	Atlanta, Ga.	Sept. 6
Sept. 28.	Macadamizing	Bellefontaine, O.	Sept. 13
Sept. 28.	Drainage ditch	Covington, Ind.	Sept. 20
Sept. 29.	Improving street	Youngstown, O.	Sept. 20
Sept. 29.	Water-works	Greene, Ia.	Sept. 20
Sept. 29.	School building	Willcox, Ariz.	Sept. 13
Sept. 29.	Canal improvements	Ottawa, Ont.	Sept. 13
Sept. 29.	Macadamizing	Kansas City, Mo.	Sept. 13
Sept. 29.	Brick sewer	West Roxbury, Mass.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		
Sept. 29.	Electric lamps	New London, Conn.	Sept. 13
Sept. 29.	Work house	Washington, D. C.	Sept. 6
Sept. 29.	Paving	Marion, O.	Sept. 6
Sept. 29.	Lock	Cincinnati, O.	Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.		

RAILWAYS.

BALTIMORE & OHIO.—Reports state that this company will shortly award contracts for the construction of from 4,000 to 8,000 freight cars, including box and coal cars. The former will have a capacity of 70,000 to 80,000 lbs. The coal cars will be constructed of steel, with a capacity for 40 to 50 tons. E. H. Bankard, Pur. Agt., Baltimore, Md.

BATON ROUGE, HAMMOND & EASTERN.—S. R. Ballard, Ch. Engr., Hammond, La., writes us that the location for this 94-mile road has been made and the right of way obtained, and contracts will be let in the middle of November. The capital has not been secured. The road will extend from Baton Rouge through Hammond, Covington, La., to Corriere, Miss. W. R. Watson, Pres., Hammond.

BIRMINGHAM, ALABAMA & GEORGIA.—Incorporated in Alabama, with capital stock of $20,000,000, to consolidate the East & West R. R. of Alabama with the Tredegar Mineral. The ultimate result of the consolidation, it is thought, is to sell to the Seaboard Air Line, which is to extend the East & West to Birmingham, a distance of 30 miles, and thus get into the Birmingham district. C. H. Hudson, Pres.; Edward Kelley, Vice-Pres., and J. B. C. Cobbs, Treas., Birmingham.

CALIFORNIA NORTHWESTERN.—It has been finally decided to extend this line northward from its present terminus at Ukiah, Cal., to points on the southern borders of Humboldt and Trinity counties. The extension will be about 60 miles in length. It is stated that a contract for the first ten miles has been let to Muir Bros., who will begin operations at once. This section is to be completed within 60 days. The new line will penetrate a heavily wooded section of Mendocino county, and will involve an expenditure of about $2,000,000, for which bonds have been issued. F. K. Zook, Ch. Engr., Tiburon, Cal.

CAROLINA & NORTHWESTERN.—L. T. Nichols, Gen. Mgr., Chester, S. C., informs us that three lines have been run from Lenoir to the Crest of Blue Ridge, and that the South Atlantic Construction Co., Contractors, Chester, S. C., will sublet the contract next spring.

CHESAPEAKE & NASHVILLE.—It is announced that this company will extend its line from the terminus at Scottsville, Ky., to Danville, Ky., where a connection will be made with the Cincinnati, New Orleans & Texas Pacific. It is also proposed to build an extension from the Gallatin, Tenn., terminus to Nashville. R. Meek, Supt., Gallatin.

CHICAGO, BURLINGTON & QUINCY.—A line is being located and surveyed into the Yellowstone National Park running up the north fork of the Shoshone River, according to reports. The survey has been completed to the mouth of Middle Creek. Thos. Jordan, Asst. Engr., Chicago, Ill.

CHICAGO, ROCK ISLAND & PACIFIC.—Reports from Chicago state that plans have been perfected by the company for shortening its line between Chicago and Kansas City by 35 miles. The saving will be accomplished by a cut-off between Eldon, Ia., and Trenton, Mo., and by the elimination of a number of curves. The work is to be undertaken this spring. R. W. Day, Div. Engr., Topeka.

CHICAGO & WABASH VALLEY.—This company has notified the Secretary of State of Indiana that it has decided to extend its line from Gifford, Jasper county, to West Lafayette, Tippecanoe county. J. E. Jones, Secy. and Treas. Kankakee, Ill.

CHICAGO, WEATHERFORD & BRAZOS VALLEY.—R. S. Weitzell, Ch. Engr., Weatherford, Tex., informs us that the line from Bridgeport to Weatherford, Tex., about 36 miles, has been located, and negotiations are now pending with parties for the construction and equipment of the road. (See issue of Sept. 6.)

COLORADO.—It is reported that a new line of railway will be built in the northern part of this state by the Standard Oil and the Colorado Fuel & Iron Cos. Surveyors are said to be in the field at present mapping out the route.

COLORADO MIDLAND.—This company proposes to make extensive improvements to its system in the near future, according to reports. The work will include the rebuilding of 13 miles of the line in Red Rock canon from Basalt, Colo. It is proposed to do away with the 16° curvature and the grade of 3½%. The curvature in the Eleven Mile canon, 12°, is also to be reduced and the grades lessened from 3%. John Connell, Road Master, Basalt, Colo.

COOPERSTOWN & CHARLOTTE VALLEY.—The company is said to be considering the question of building an extension from Davenport Centre to Jefferson, N. Y. D. E. Siver, Pres., Cooperstown, N. Y.

DAVENPORT, ROCK ISLAND & NORTHWESTERN.—E. E. Hughes, Gen. Mgr., Davenport, Ia., is reported to have stated that the contract for constructing the Peoria extension as far as Galesburg will probably be let within 30 days. The line will follow the original survey. The plans have been completed and forwarded to the officials at Chicago for ratification. W. T. Finley, Ch. Engr.

DELAWARE VALLEY & KINGSTON.—The Appellate Division, at Albany, N. Y., has announced its decision in the case of the anthracite railway companies against this company, which is in favor of the construction of the latter road. Chas. E. Webster, Ch. Engr., 19 Bickham Bldg., Port Jervis, N. Y.

ERIE.—Surveyors are reported to be at work locating a line from the main line past Conneaut Lake, Pa., station. It is said to be the intention of the company to do away with the Stony Hill grade on this line by building a new road, which will be about three miles longer than the present one.

FORT SMITH & WESTERN.—Reports from Fort Smith, Ark., state that a definite proposition has been made to the commercial League in which the company proposes to begin the construction of its road from Fort Smith to Guthrie, Okla., at once. The preliminary work has been finished. F. W. Bond, Ch. Engr.; Col. Geo. T. Sparks, Fort Smith, is interested.

GRAND FORKS & KETTLE RIVER.—T. W. Holland, Mgr., Grand Forks Townsite Co., Grand Forks, B. C., and a promoter of this line, is reported to have stated as follows: "The route presents no engineering difficulties. It will follow the Kettle River, Curlew and San Poil valleys, roughly speaking, a distance of 34 miles. Under our Canadian charter we will build from Grand Forks to Carson, B. C., on the international boundary, a distance of four miles, and thence extend the road to Republic under the laws of the state of Washington. The enterprise is purely a business one." The survey for this line will soon be started. All of the capital for the construction of the road has been secured, and no subsidies will be asked for. Hon. J. R. Stratton, Provincial Secretary of the Ontario government; F. M. Holland, Gen. Mgr., Dominion Permanent Loan Co., Toronto, Ont., and Geo. H. Cowan, Vancouver, are interested in the project.

HETCH-HETCHY & YOSEMITE VALLEY.—Incorporated in California, according to reports, with a capital stock of $1,600,000, to build a road from Carters to Hetch-Hetchy and Yosemite Valley, a distance of about 75 miles, with branches aggregating 50 miles. W. R. Berry, H. L. Tisdale, San Francisco, and C. F. Baker, Oakland, are interested.

INDIAN TERRITORY.—The town of Tahlequah is reported to have entered into contract with C. C. Godmar to build a railway from Tahlequah to a connecting railway. The town has subscribed $30,000 to the enterprise, of which one-tenth will be paid at the end of each mile of completed track. The work is to be started in 30 days. It is not decided whether the road will go by way of Wagoner or via Fort Gibson and Muscogee. W. W. Hastings, T. J. Adair and James S. Staples represented Tahlequah in the matter.

INDIANAPOLIS SOUTHERN.—J. E. McGettigan, Vice-Pres., Stevenson Bldg., Indianapolis, Ind., informs us that two preliminary surveys have been made for this road, and surveys for permanent location are now being made. A large portion of the right of way and valuable terminals have been secured. The proposed line will be 210 miles in length, and will start at Indianapolis and run to Nashville, Brownstown, Salem, New Albany, with a branch line from Salem to Paoli, West Baden and French Lick Springs to Rockport. It is the company's intention of eventually extending the road to Owensboro, Ky., about 10 miles, by a bridge over the Ohio River. The construction is expected to be started this fall. D. M. Parry, Pres., Stevenson Bldg., Indianapolis.

KENTUCKY.—Lawrence Rice, Pineville, Ky., is reported to have been engaged by eastern capitalists to look into the matter of a survey for a railway from Harlan Courthouse to Pineville or Middlesboro, 30 and 40 miles distant, respectively. The road is projected to open up the coal and timber lands of Harlan county, owned by the promoters.

KANSAS CITY, MEXICO & ORIENT.—The following information regarding the progress of this line has been received from the Chief Engineer's office, 616 Wyandotte, Kansas City, Mo.: The route, by name of towns, will be from Kansas City, Mo., through Wichita, Kan.; Augusta and Arapahoe, Okla.; Chillicothe, Sweetwater and Presidio, Tex., and Chihuahua and Port Stilwell, Mex., a total length of about 1,600 miles. Locations have been made between Wichita, Kan., and Cleo, Okla., and the construction between those points is now under way, the Kansas City & Oklahoma Construction Co. having the contract. Most of the rights of way have been secured. Preliminary surveys have been made between Cleo, Okla., and Red River, Tex., and between Presidio, Tex., and Chihuahua, Mex. Reconnoissances have been made over all the rest of the line. Between $5,000,000 and $6,000,000 of capital has been subscribed for construction, and subscriptions for several additional millions are expected to be closed shortly. The sub-contractors are: H. C. Lindsly, Kansas City; A. J. Titus & Co., Anthony, Kan.; W. C. Edwards, Kansas City; A. C. Springs & Co., El Reno, Okla. A. E. Stilwell, Pres.; Milnor P. Paret, Ch. Engr.

LOS ANGELES & SALT LAKE.—F. K. Rule, Gen. Mgr., Los Angeles Terminal Ry., Los Angeles, Cal., is reported to have made the following statement in relation to the proposed railway to the built by the company, which recently purchased Los Angeles Terminal Ry., to extend from Los Angeles to Salt Lake City, Utah: "Work on the construction of the line to Salt Lake City will be in full swing within three months. We have abundant capital for the purpose, and will not be put to the necessity of issuing bonds to pay the cost of construction. This is simply a fulfilment of the plans in view ever since the terminal was organized, and has been delayed until now largely on account of the delay in the improvement of San Pedro harbor. Surveyors are at work now on a line eastward from Los Angeles. Our first objective point is San Bernardino, a distance of 60 miles. From there the road will go forward to Salt Lake City. We shall not build to any western extension of the Union Pacific or the Rio Grande Western. We shall not stop until we have reached Salt Lake City, where we can connect with all transcontinental lines having termini there. The surveys, which are in charge of Henry Hawgood, for many years with the engineering department of the Southern Pacific, will be pushed with all possible speed and the actual construction begin within three months." Ex-Senator Wm. A. Clark, of Helena, Mont., is largely interested in the enterprise.

LEHIGH VALLEY.—This company, it is stated, will soon begin work on the extension of its freight line at Allentown, Pa. The road will be a belt line and will relieve the main tracks of a large amount of traffic. A freight house will be erected on the line of the new road in the eastern section of the city. Philip H. DeWitt, South Bethlehem, Pa.

LOUISVILLE & NASHVILLE.—The ordinance passed by the council of New Orleans, La., providing for the erection of a new passenger station, at an expense of $50,000, and about 5½ miles of double track, will be accepted by the company, according to reports. R. Montfort, Ch. Engr., Louisville, Ky.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Reports state that the Wisconsin, Michigan & Northern road has been acquired by this company. It is stated that the acquired road may be extended to the Menominee range mining towns in Michigan.

MISSOURI, KANSAS & TEXAS.—F. W. Fratt, San Marcos, Tex., informs us that the contract for grading the line from San Marcos to San Antonio, Tex., about 49 miles, was let on Aug. 29 to the Grigsby Construction Co., San Marcos. The work is now being sublet.

NORTHERN PACIFIC.—The company was to have started work about Sept. 1 on the proposed improvements to be made at Everett, Wash., estimated to cost $150,000. The work will include the building of the water front, new tracks and a yard, and a new depot.——Surveyors of this company are at Hoquiam, Wash., and it is thought that their object is to run over the proposed extension to the Quinault reservation, with the straits as the ultimate objective point. C. S. Bihler, Div. Engr., Tacoma, Wash.

OREGON.—Reports from Oregon state that a proposition is now being considered by eastern capitalists to build a broad gage railway from Union southeasterly through the Powder River pass via Medical Springs to the town of Cornucopia, about 50 miles distant. The grades are said to be easy, and the right of way will be donated by the ranch owners. The line is projected to open to commerce the great copper belt running from Seven Devils county, Idaho, into central and southern Oregon, and the projectors are confident that the scheme will be successfully carried out.

OREGON MIDLAND.—Reports state that the construction of a line from Hornbrook, Cal., to Spencer Flat, Ore., and ultimately to a point on the Oregon Short Line, will be started in a short time. The road is said to have been surveyed for 61 miles, and will tap a rich timber district. J. A. McCall, Ch. Engr., Portland, Ore.

PAWPAW.—This company has been incorporated in West Virginia to build a railway from Fairmont to a point on the Baltimore & Ohio R. R., and run thence in a northerly direction along the banks of Pawpaw Creek to Fairview. V. N. Arnett, Jr., A. B. Fleming and W. S. Haymond, Fairmont, are interested.

PENNSYLVANIA.—Pittsburg manufacturers and capitalists are said to be considering the proposition of a trunk line railway to the Atlantic seaboard with indepedent connections with Chicago and St. Louis. It is estimated that $30,000,000 will build the road. The Philadelphia & Reading Ry. is considered the best one for the nucleus of the proposed system, on account of its better terminal facilities and its control.

PENNSYLVANIA.—The contract for building two miles of railway, connecting this line with the new colliery on the Greenough tract at Marion Heights, Pa., is reported to have been let to C. L. Kramer, Contractor, Sunbury, Pa.

PENNSYLVANIA R. R.—Surveys are being made, according to reports, for a new line from Dean Station, about eight miles south of New Brunswick, N. J., to Metuchen. It is proposed to do away with the curves and shorten the line by about one mile. W. H. Brown, Ch. Engr., Philadelphia, Pa.

QUEBEC & NEW BRUNSWICK.—At a meeting of the directors on Sept. 5, John Castigan was elected president, and F. G. M. Dechene secretary-treasurer, Quebec. The line is proposed to run from Conner station to either St. Charles Junction, St. Anselme or Chandiere Junction about 130 miles. The road will pass through timber and pulp wood regions, and will have subsidies from the Federal government amounting to $3,200 a mile.

ST. LOUIS & NORTH ARKANSAS.—A proposition has been made by the officials of this company to the town of Harrison, Ark., in which the company offers to extend the line now being constructed from Eureka Springs into the town, providing a bonus of $35,000, the right of way through the county and depot grounds are donated. G. West, Eureka Springs, Ark.

SAN FRANCISCO & CLEAR LAKE.—Richard Wyles, Napa, Cal., writes us that most of the right of way for this line has been obtained, and the capital has been secured. It is expected to begin the construction in the near future. The line will run from Vallejo via Napa and Middletown to Lower Lake, about 86 miles. W. B. King, Pres., 418 California St., San Francisco.

SOUTHERN PACIFIC.—Chas. H. Tweed, Chn., 23 Broad St., New York, is reported to have stated that the company's losses caused by the recent disaster at Galveston, Tex., will probably amount to $400,000, and that the company would rebuild all property destroyed.

TOLUCA, MARQUETTE & NORTHERN.—Incorporated in Illinois with $100,000 capital stock, to construct a road from Toluca northerly through Marshall, Putnam to Marquette, with branches easterly, northerly and westerly to the boundary lines of those counties. Chas. J. Devlin, Spring Valley; E. Anderson, Marquette, and J. N. Thornton, Magnolia, are incorporators.

WEST VIRGINIA.—Merritt Wilson, Pres., Wilson Lumber Co., Wilson, W. Va., informs us that the company's line of five miles is about half completed. The construction is being done by the company's forces.

STREET AND ELECTRIC RAILWAYS.

EXETER, N. H.—Local papers state that Walter D. Lovell will apply at the coming session of the legislature for a charter for an electric railway between this place and New Market, to be known as the Exeter & New Market St. Ry.

ORANGE, MASS.—The Millers Falls & Orange St. Ry. Co. plans to extend its track from West Orange through the south over Miller's River, through certain streets of this city.

ROCHDALE, MASS.—Plans for the location of the Worcester, Rochdale & Charlton St. Ry. have been filed by William N. Howard, South Easton. The town of Worcester and Auburn have filed acceptances of the location.

WORCESTER, MASS.—Local papers state that L. Baehr, Civil Engr., Cleveland, started the surveys for the route of the Worcester & Blackstone Valley St. Ry. from the Worcester end on Sept. 12. It is stated that A. Thomas, Vice-Pres., Millbury, will arrange the details for letting contracts for constructing the line, which will run from Millbury to Worcester via the old Millbury road.

MERIDEN, CONN.—A committee appointed by the council has gone over the route of the proposed extension of the Meriden Electric Ry. to the Walnut Grove cemetery, and have recommended the construction of the line with an extension through to Archer's Corners. N. H. Hart, Pres.; W. L. Guire, Secy. and Treas.

ALBANY, N. Y.—The Whitehall & Granville R. R. Co. has been incorporated with $750,000 capital stock, to build an electric road from Whitehall to Granville, about 14½ miles, with several branches, making a total length of 20½ miles. Wm. H. Hughes, Granville; James H. Burnett, Whitehall, and Chas. I. Baker, Troy, are directors.——The Rockland County Traction Co. has been incorporated with $300,000 capital stock, to build an electric railway from Upper Nyack to Rockland, about 30 miles. Henry F. Shields and T. D. Harris are interested.

ALBANY, N. Y.—The Elizabethtown & Westport Ry. Co. has been incorporated with $200,000 capital stock to build a surface road ten miles in length, extending between these towns. G. P. Hopkins and John Willoughby, New York, and A. Van Vechten, Elizabeth, N. J., are interested.

ALBION, N. Y.—The Buffalo, Niagara Falls & Rochester Ry. Co. has made application to the highway commissioners for a right of way through Murray.

BUFFALO, N.Y.—The Buffalo Ry. Co. has asked for permission to lay another track in Carolina St., to a point in Prospect Ave.

ONEONTA, N. Y.—The directors of the Oneonta & Otego Valley R. R. Co. have decided to extend the system through to Richfield Springs next season. W. D. MacQuesten, Mgr., is reported as stating that the line will be over a private right of way for part of the distance, and that the power plant will be located in Oneonta, with transformer stations at every five miles. The cost of the extension will be about $680,000. The company's name has been changed to the Oneonta, Cooperstown & Richfield Springs Ry. Co., and the capital stock has been increased from $100,000 to $750,000. The survey of the line has been completed by Engineer Phillips.

RIVERTON, N. J.—The council has granted a franchise to the Camden & Suburban Ry. Co.

HARRISBURG, PA.—The Smithport Electric St. Ry., of Smithport, has been incorporated with $12,000 capital stock.

HARRISBURG, PA.—The Arcadia & Clifton Heights R. R. has been incorporated to build a road 2½ miles in length in Delavan county. The capital stock is $25,000.

JEANETTE, PA.—It is stated that the Leechburg, Vandergrift & Apollo Electric Ry. will be extended to this place. The route will be via North Washington, Markle, Oakland Cross Road and Delmont. A preliminary survey is now being made.

McKEESPORT, PA.—Local papers state that the Union Traction Co. has decided to expend $15,000 for the purpose of laying a new road between this city and Wilmerding. J. D. Callery and W. H. Keech are interested.

VERONA, PA.—An ordinance has been introduced in the council for an extension of the Wilkinsburg & Oakmont St. Ry. Co. through this town. The line is to run through from Wilkinsburg to Oakmont, about nine miles.

BRISTOL, VA.—The Bristol Belt Line Ry. has been granted a franchise for the use of certain streets in Bristol for its line.

GEORGIA.—J. H. Hicks, Clarksville, would like to correspond with parties interested in electric railways, who could arrange for the capital for constructing an electric road from Porter Factory through Aerial, Sautee and Nacoochee, about 15 miles. Mr. Hicks states that the Soque Shoals could be obtained at a fair price, and 600 HP. can be developed. No steps have been taken for obtaining the right of way, and no difficulty is anticipated in securing it.

CANTON, O.—The county commissioners have granted a franchise to the Stark Electric Ry. Co. for the construction of a line between Canton and Alliance via. Louisville, about 18 miles. The construction is to be started Nov. 1, 1900, and to be completed by May 1, 1901. The franchise stipulates that $20,000 must be spent in actual construction. R. R. Jacob, Waynesburg, is one of the promoters.

FOSTORIA, O.—Michael A. McCarron, Detroit, Mich., is in this city looking after the matter of securing a franchise from the council for the Toledo, Fremont & Norwalk Electric Ry.

LEBANON, O.—The county commissioners granted a franchise Sept. 4 to W. P. Sunderland and J. P. Wolfe, Dayton, for an electric road from this city to Dayton. The road is to be in operation in 18 months.

YOUNGSTOWN, O.—It is stated that the Youngstown & Sharon Ry. Co. has been fully financed and that the construction will be started at once. Penfale & Fisher, 20 Broad St., New York, announce that Harry G. Hamilton will have charge of the work and will let contracts at once. The right of way is fully secured and everything is in shape for building. W. H. Park, Pres., Youngstown.

FT. WAYNE, IND.—R. M. Barbour, Toledo, is reported to have estimated the cost of building the proposed interurban electric railway from Ft. Wayne to Syracuse at $800,000. S. M. Foster, C. F. Pfeiffer, F. V. Culbertson and others are interested.

TERRE HAUTE, IND.—Geo. R. Grimes, Ch. Engr., Terre Haute, informs us that a preliminary survey has been made for the Terre Haute & Wabash Valley electric road, which will run from Clinton via Terre Haute, Prairietown, Middletown, Fairbanks to Merom, about 65 miles. J. R. Kendall, Pres.

GRAND RAPIDS, MICH.—G. S. Johnson, Gen. Mgr., Grand Rapids Ry. Co., writes us that the contract for the masonry work on the company's new power house has been let to Hayden & Appleyard, Grand Rapids. The contract for the iron work has not yet been awarded.

JACKSON, MICH.—The council has granted a franchise to Frederick N. Rowley, Kalamazoo, for the use of certain streets for an electric railway, which is to be operation within 18 months.

LEXINGTON, MICH.—The Detroit, Lexington & Lake Huron Electric Ry. has been granted a franchise by the township board for a road through Lexington, to be completed by Dec. 31, 1901.

CHICAGO, ILL.—The Metropolitan West Side Elevated Ry. Co. has begun condemnation proceedings against the property owners along the extension of its right of way from the present terminus of the Douglas Park branch. W. J. Menden, Ch. Engr.

JANESVILLE, WIS.—Edward Blaben, Secy. and Treas. of the Janesville Electric Ry. Co., has announced that the proposed Janesville, Beloit & Rockford electric line will not be built, owing to the lack of capital.

MILWAUKEE, WIS.—John I. Beggs, Gen. Mgr., Milwaukee Electric Ry. & Light Co., 451 Broadway, Milwaukee, is reported to have announced that the plans and specifications for the additions to the boiler room at the River St. power house had been completed by H. J. Esser, Arch., and bids were now being received. The building will cost about $100,000, and about $225,000 will be spent on the plant.

NEENAH, WIS.—Thos. Higgins writes us that applications have been made for franchises in Manitowoc and Two Rivers and intervening towns, for the proposed electric railway, and a company will be organized and construction started as soon as the franchises are granted.

GUTHRIE, OKLA.—The Union Electric Ry. Co. has been incorporated with $122,000 capital, to build an electric road in South McAlesten, through Krebs, Cherryvale, Alderson and Hartshone, about 25 miles. Albert H. Howe, New York; J. F. Craig, South McAlesten, and Robert T. White, Fort Sill, are interested.

DENVER, COLO.—The scheme to build an electric railway from River Front park to Boulder is being revived by J. Brisben Walker, according to reports.

SANTA FE, N. MEX.—The council is considering the question of granting a street railway franchise to Denver capitalists, represented by Col. Geo. W. Knabel.

SAN FRANCISCO, CAL.—The Tuttletown & Angels Aerial Tramway Co. has been incorporated to build an aerial tramway from Tutteltown, Tuoloumne county, to Angels, Calaveras county, about eight miles, to be used for freight and passengers. The capital stock is $100,000. A. Poniatowski, S. D. Freshman and William Angus are interested.

ELECTRIC LIGHT AND POWER.

NEW YORK, N. Y.—Thos. E. Murray, Mgr., writes us that the New York Gas & Electric Light, Heat & Power Co. will make no additions to its plant at 141st St. and Rider Ave.

VINELAND, N. J.—Bids are asked until Sept. 25 for furnishing the materials and for constructing a plant, pole line of 20 miles of wire, smoke stack, etc., as described in our advertising columns. Alex. Potter, Engr., 150 Nassau St., New York; Dr. J. S. Halsey, Ch. Com.

NEW CASTLE, PA.—Bids are asked until Sept. 24 for lighting this city for two, five or ten years, with electric arc or incandescent lights, or Welsbach self-generating street lights. J. C. Jackson, Cy. Clk.

MANCHESTER, VA.—Reports state that the light committee will soon ask for bids for lighting the city. A. H. Meyer, Chn. Com.

MARION, VA.—Press reports state that the council has decided to grant a 15-year franchise for a plant.

WELDON, N. C.—It is stated that the Roanoke Navigation & Water Power Co. will let a contract for a duplicate 500-HP. plant as soon as the present plant is completed.

LAKE CITY, FLA.—Local papers state that a stock company is being organized to build an electric lighting plant here for the purpose of lighting the city.

FAYETTE, MISS.—Press reports state that the Fayette Oil Works will erect an electric plant, to cost about $3,500.

MAGNOLIA, MISS.—Press reports state that the citizens of this city will form a company to erect a plant for lighting the city.

OXFORD, MISS.—The council is considering the question of erecting a plant and constructing a sewerage system, according to reports.

PERRY, LA.—The board of aldermen is said to have let the contract for lighting the city to W. J. Davis.

DICKSON, TENN.—Nashville capitalists will build a plant and water-works in this place, providing a franchise can be secured.

WARREN, IND.—We are informed that H. D. Hallett, Aurora, Ill., has been engaged to prepare plans and specifications for the proposed plant and water-works. Gas power will be used.

PONTIAC, MICH.—The council has granted J. W. Martin a 30-year franchise for a plant.

AVA, ILL.—Reports state that the city plant was recently destroyed by fire; loss about $4,000.

MILWAUKEE, WIS.—H. J. Esser, Pabst Bldg., is said to be receiving bids for the new boiler house and power station at One'da and River Sts. for the Milwaukee Electric Railway & Light Co., to cost about $225,000. J. I. Beggs, Mgr.

MANCHESTER, IA.—At a special election the people of this city voted to grant a franchise for a plant, according to reports.

THIEF RIVER FALLS, MINN.—Bids are asked until Sept. 25 for constructing a power house and electric plant. Geo. A. Ralph, Engr., Crookston; L. Backe, Cy. Clk.

COFFEYVILLE, KAN.—This town recently voted, at a special election, to issue $20,000 in bonds for erecting a municipal plant.

IOLA, KAN.—We are informed that the following bids were received Sept. 11 for the electric plant in connection with the proposed works, the bids for which are given under Water-Works: E. M. Reed & Co., Kansas City, Mo., $8,994; Fort Wayne Electric Works, Fort Wayne, Ind., $8,670; G. Jeager, Rich Hill, Mo., $8,901 with Brush dynamo, or $8,753 with Wood dynamo. Burns & McDonnell, Engrs., Postal Telegraph Bldg., Kansas City, Mo.

GALVESTON, TEX.—The municipal plant was destroyed by the recent cyclone. D. Hall, Supt.

SEDRO-WOOLLEY, WASH.—Shrewsbury & McLain, manufacturers of this place, have signified their intention of applying to the council for a franchise to establish an electric light and power plant in connection with their mill.

LOS ANGELES, CAL.—Arthur W. Burt, of Pomona, has been granted a franchise for a plant to operate in Los Angeles county.

RIVERSIDE, CAL.—The trustees are said to have accepted plans for the proposed plant and will receive bids for its erection until Oct. 10.

ALMONTE, ONT.—It is stated that a special election will be held Oct. 20 to vote on the question of issuing $3,000 in bonds for erecting a municipal plant.

NEW COMPANIES.—Bath Electric & Gas Light Co., Bath, N. Y.; $100,000; N. W. Dalton, J. F. Parkhurst.—Citizens' Electric Light & Power Co., Sandusky, O.; $100,000; J. B. Hanna, H. A. Everett, W. H. Price.—Walton Light Co., 76 Montgomery St., Jersey City, N. J.; $100,000; L. C. Baker, L. S. Lewis.

BRIDGES.

BANGOR, ME.—The council has directed the committee on streets, highways and bridges to investigate the cost of a steel bridge to be built over Franklin St. to replace the present wooden structure.

BIDDEFORD, ME.—The following bids have been received for the erection of a new bridge on Main St.: Eastern Bridge Co., $15,200 (accepted); Berlin Iron Bridge Co., $15,929; King Bridge Co., $18,400; Boston Bridge Co., $19,300; New England Structural Co., $21,000.

HENNIKER, N. H.—C. B. Childs writes us that the contract for the bridge over the Contoocook River on Commercial St. has been let to the Berlin Iron Bridge Co., East Berlin, Conn. The substructure is being built by the town.

BUFFALO, N. Y.—The board of public works has been directed by the board of aldermen to award the contract for the superstructure of the Seneca St. bridge to the Buffalo Bridge & Iron Works at $19,950. The company will erect a temporary structure to cost about $1,500.

DUNKIRK, N. Y.—It is stated that the Lake Shore & Michigan Southern R. R. will erect a new steel bridge to replace the Bass St. structure.

SAG HARBOR, N. Y.—The American Bridge Co. has the contract for a steel bridge, with an 85-ft. swing span, to be built between this village and North Haven, at a cost of $13,000.

SOUTH HORICON, N. Y.—Reports state that an iron bridge will soon be erected over the river in this town.

WATERFORD, N. Y.—J. N. Ford, Village Pres., informs us that nothing will be done for some time toward constructing the proposed bridge over the Hudson River at Broad St., as the appropriation cannot be secured until next year.

BLAIRSTOWN, N. J.—The board of freeholders have decided to build a new iron bridge over Paulin's Kill near this town. The structure will consist of two spans 78 ft. long, low trussed, and about 13 ft. wide. The following are members of the committee appointed to have charge of the construction: William Jones, Chn., Vail; James Kishpaugh, Blairstown; John A. Walters, Knowlton, and Edgar W. Ramsey, Johnsonburg.

SEABRIGHT, N. J.—Plans are being prepared for the board of chosen freeholders of Monmouth county for a draw bridge to have a steel superstructure and granite substructure, estimated to cost $60,000, according to reports.

ALLENTOWN, PA.—The grand jury has reported in favor of constructing three new bridges, located as follows: one at Catasuaqua over the Lehigh River, one at Egypt over Copley Creek and the third at Lowhill Church, Lowhill township, over Jordan Creek.

GERMANTOWN, PA.—Plans for a bridge over the Pennsylvania R. R. at Coulter St. have been approved by the board of surveyors. The city will pay one-half of the cost of the structure and the Pennsylvania R. R. and the Union Traction Cos. will pay the balance.

McKEESPORT, PA.—The proposition of freeing all the bridges in this county is being strongly agitated by the citizens of McKeesport. The county commissioners have been petitioned and the grand jury will be appealed to. It is estimated that the cost of freeing the bridges will amount to about $10,000,000.

HAMPTON, VA.—Bids are asked until Sept. 26 for the erection of a bridge across New Bridge Creek, to be 61 ft. long and from 10 to 18 ft. in width. H. H. Holt, Clk. Bd. County Supervisors.

LILLINGTON, N. C.—Bids are asked until Oct. 1 for constructing a steel bridge across Cape Fear River, near this place. A. C. Halloway, Clk. Bd. Com.

MONROE, GA.—Bids are asked until Sept. 24 for building a bridge over the Appalachee River, on the line of Walton and Oconee counties, according to reports. W. B. Barrett, Chn.

DECATUR, ALA.—It is stated that the Southern R. R. will build a steel draw bridge at this place, to replace the present wooden structure. J. R. Pill, Asst. Engr., Birmingham, Ala.

MEMPHIS, TENN.—The council has approved the recommendation of the fire and police commissioners for a culvert over Bayou Gayoso, on Main St., estimated to cost $17,633, and a culvert over Bayou Gayoso, on Pontotoe St.

MARIETTA, O.—Application will be made by the Ohio River Bridge & Ferry Co. for permission to build a bridge across the Ohio River at this place. M. F. Noll, Secy.

HUNTINGTON, IND.—Bids are asked until Sept. 22 for constructing a bridge in Jefferson township. W. T. Wamsley, County Audr.

TERRE HAUTE, IND.—The county council has voted an appropriation of $10,000 for bridges in the county during the year.

WABASH, IND.—The contract for seven bridges recently awarded to the King Bridge Co. by the county commissioners has been transferred by that company to the Wabash Bridge & Iron Works.

ADRIAN, MICH.—It is stated that a new steel bridge will be erected on Maumee St., this city.

CHICAGO, ILL.—The drainage board has adopted the report of the joint commission for a $2,500,000 bond issue, the proceeds of which are to be used for river improvements, including the erection of bascule bridges in substitution for the center pier bridge across the Chicago River.

EAU CLAIRE, WIS.—Reports state that the rise of the Yelolow and Fisher Rivers, east of here, has carried away three bridges and a dam.

OMAHA, NEB.—Local papers state that Horace G. Burt, Pres. Union Pacific R. R., Omaha, has assured the city officials that the company will start the construction of the proposed viaduct connecting the city with South Omaha, by way of South 24th St., this fall. The structure will be of steel, and about 1,200 ft. in length.

HILLSBORO, MO.—Bids are reported wanted until Sept. 27 for a bridge across Meramec River. Address Commissioner Dover.

GALVESTON, TEX.—It is stated that the Southern Pacific Co. will prepare plans at once for a double-track steel bridge across Galveston Bay, to replace the structure recently destroyed. Surveys are being made. J. T. Mahl, Engr. M. W., Houston, Tex.

SEATTLE, WASH.—It is stated that the Seattle Electric Co. has asked for permission to reconstruct the bridge across Lake Union to Latona.

SPOKANE, WASH.—The board of public works has plans for the reconstruction of the approach to the Monroe St. bridge, to cost about $16,500.

SACRAMENTO, CAL.—The committee on contracts have received the following bids for constructing steel bridges at Fair Oaks and Georgiana Sloughs: Fair Oaks bridge, James A. MacMahon, $28,500; Hyde Construction Co., $26,900; Pacific Construction Co., $24,800, Cotton Bros., $27,300; Clark & Henry, $25,200. Georgiana Slough bridge, Hyde Construction Co., $32,000; Pacific Construction Co., $19,632; Cotton Bros., $19,800; Clark & Henry, $19,000; Darby Layden, $19,000, and $19,475 (special plans).

SANTA BARBARA, CAL.—The city engineer has been instructed to furnish the council with estimates, etc., for a new bridge across Mission Creek on Canon Perdido St.

SANTA CRUZ, CAL.—Bids are asked until Sept. 22 for constructing a bridge over Redeo Gulch, near Thompsons, according to reports. H. H. Miller, County Clk.

WALKERTOWN, ONT.—Bids are asked until Sept. 24 for constructing a concrete arch over mill race in this town. H. Clark, Chn. St. Com.

BUILDINGS.

CAMBRIDGE, MASS.—The trustees of Harvard University have decided to erect a new museum building, to cost about $150,000.

NARRAGANSETT PIER, R. I.—Fire destroyed the Rockingham Hotel, Sherry's Casino, the Hazard Block and a number of other buildings recently; loss, about $350,000.

PROVIDENCE, R. I.—The council has appropriated $30,000 and accepted the plans of Sanders & Thornton, 7 College St., for a new school house at Webster Ave. and Dora St.

PROVIDENCE, R. I.—Bids are asked until Sept. 27 for erecting a new school house at Webster Ave. and Dora St., Eighth Ward. B. E. Perkins, Chn.; D. F. Hayden, Clk. Com.

HARTFORD, CONN.—Bids are asked by the building committee of the southwest school district until Sept. 20, for erecting a new school house on White St.

NEW HAVEN, CONN.—The board of finance will soon receive bids for the purchase of $480,000 in bonds for erecting a new high school building.

ALBANY, N. Y.—Bids are asked until Sept. 25, postponed from Sept. 15, for altering the U. S. building. James K. Taylor, Supv. Arch., Treasury Department, Washington, D. C.

ALBANY, N. Y.—Bids are asked by the board of contract and supply until Oct. 8 for erecting a new school house.——The board is said to have let the contract for erecting the new public bath house to Collins Bros., 953 Madison Ave., at $29,812.

MADISON BARRACKS, N. Y.—Bids are asked until Sept. 27 for erecting complete a hospital steward's quarters at this post. C. W. Abbot, Jr., Q. M.

NEW YORK, N. Y.—Bids are asked until Oct. 6 for furnishing and erecting the steel work for building No. 22, 60 × 300 ft., at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.——The trustees of the Women's Hotel Co. are said to have purchased a site between 34th St. and Madison Square on which they will erect a new hotel building, to cost about $400,000.

NEW YORK, N. Y.—Bids are asked by the board of education, 59th St. and Park Ave., until Sept. 24 for the sanitary work for public school No. 178, Manhattan, and at public schools Nos. 125 and 127, Brooklyn; also for erecting public school No. 182, at Ave. C, near 9th St., Unionport, Bronx.

NEW YORK, N. Y.—Plans have been filed by Max Arbuctel, 835 Southern Boulevard, for five 3-story frame tenements 20 × 60 at Bristow Ave., near Jennings St., to cost about $30,000. T. W. Ringrose, Arch., 2640 Third Ave.; by St. Bartholomew's Church Corporation, 348 Madison Ave., for a 6-story brick dispensary building 50 × 92 ft. at 215 and 217 East 42d St., to cost about $200,000. M. L. & H. G. Emery, Archs, 68 Bible House; by the Morningside Realty Co., 27 Pine St., for a 10-story brick and stone dormitory and apartment house, 200 × 100 ft. at Amsterdam Ave. and 120th and 121st Sts., to cost about $600,000. Price & Darrach, Archs., 1133 Broadway; by John J. Mahoney, 51 West 94th St., for three 5-story brick flats 25 × 84 ft. at 104 to 108 East 97th St., to cost about $75,000. A. De Saldern, Arch., 130 Broadway; by Karst & Korn, 2051 Eighth Ave., for four 5-story brick flats, 25 × 85 ft., at 313 to 319 West 40th st., to cost about $80,000. Louis Korn, Arch., 37 Maiden Lane; by Thos. A. Woods, 170 West 65th St., for four 5-story brick flats, 25 × 84 ft. at 231 to 237 West 65th St., to cost about $80,000. R. Graff, Arch., 830 Girard Ave.; by Mabel M. Moore, Pleasantville, N. Y., for five 2-story brick dwellings 18 × 41 ft. at Union Ave. and 151st St., to cost about $32,750. Frederick R. Meres, Arch., 583 Prospect Ave.; by William C. Schmidt, 461 Lenox Ave., for a 5-story brick flat 25 × 100 ft. at Amsterdam Ave. and 157th St., to cost about $30,000. Cleverdon & Pretzel, Archs., 41 Union Square West; by John Scheuring, 418 East 91st St., for three 5-story brick flats 25 × 85 ft. at 113th St., near Third Ave., to cost about $60,000. John Hansen, Arch., 1961 Seventh Ave.; by George F. Johnson & Sons, for eight 2-story brick dwellings 20 × 50 ft. at Beck Ave., near 156th St., to cost about $48,000. W. C. Dickerson, Arch., 534 Willis Ave.; by Daily & Carlson, Broadway and 103d St., for a 7-story brick apartment house 120 × 96 ft. at Broadway and 103d St., to cost about $380,000. Henry Andersen, Arch., 330 Madison Ave.; by G. & E. Doctor, 410 East 66th St., for two 6-story brick tenements, 25 × 88 ft., at 109th St., near Third Ave., to cost about $60,000. John Hauser, Arch., 1961 Seventh Ave.; by William Robitzek, 1046 East 169th St., for six 2-story brick dwellings, 20 × 55 ft. at 168th St., near Union Ave., to cost about $66,000. Paul C. Hunter, Arch., 1148 Stebbins Ave.

NEW YORK, N. Y.—Bids are asked by the department of public charities, foot of East 26th St., until Sept. 24, for erecting a boiler plant at the infants' hospital and for a new central steam heating plant on Randall's Island.

WEST POINT, N. Y.—We are informed that the following bids were received Sept. 1 by Maj. J. B. Bellinger, Q. M., U. S. V., for erecting three double sets of officers' quarters, as advertised in Engineering News, (1) being for buildings, (2) for plumbing and gas fitting, (3) for interior electric conduits, (4) steam heating and (5) total bid: A. Pasquini, 1123 Broadway, New York, (1) $59,703; Le Valley & McLeod, Elmira, (2) $5,454, (4) $3,983, omitting gas fitting, $260; Denniston, Dyer & Co., Albany, (1) $54,732; Canfield Supply Co., Rondout, N. Y., (2) $5,480, (4) $3,974; William Dickison, Syracuse, (1) $51,750; H. A. Cameron, Binghamton, (1) $48,000, (2) $3,900, (3) $1,464, (4) $3,200, (5) $56,564, awarded contract at $55,100, omitting electric conduit; Robert McArtney, 877 Seventh Ave., New York, (5) $57,750; Campbell & Dempsey, Kingston, (1) $57,900; Henry W. Otis, Kingston, (5) $61,140; Wm. N. Tobin, Syracuse, (2) $4,495, (4) $3,500.

BAYONNE, N. J.—Rudolph W. Sailer has presented plans for a new 3-story brick school building to cost $70,000.

MONTCLAIR, N. J.—Plans for two double and two single fire engine houses have been submitted to the fire committee.

TRENTON, N. J.—F. W. Roebling, Pres. Bd. Trustees, writes us that the contract for erecting the new public library building has been let to Lewis Lawton, 432 Hamilton Ave., at $61,759. Vermont marble to be used.

BELLEVUE, ALLEGHENY COUNTY, PA.—The school board has decided to build a new high school building. Attorney A. S. Miller, member of the board.

CHAMBERSBURG, PA.—The grand jury is said to have voted in favor of the proposed enlargement of the courthouse.

JOHNSTOWN, PA.—The council will erect a new city hall building, to cost about $50,000. No plans have yet been prepared.

PHILADELPHIA, PA.—The following bids were received Sept. 10 by Col. F. L. Denny, Q. M., U. S. Marine Corps, Washington, D. C., for erecting a marine barracks at the League Island navy yard: William R. Dougherty, 1604

Sansom St., $89,500, if cellular tile is used $1,500 should be deducted; Stacy Reeves & Sons, $95,894; William Steele & Sons, 929 Witherspoon Bldg., $95,906, if Indiana limestone is substituted, deduct $5,169; Block & Hill, 711 Walnut St., $117,689; Geo. C. Dietrich, 835 North 7th St., $81,973; L. L. Leach & Son, Marquette Bldg., Chicago, Ill., $98,569; M. P. Wells & Co., 1422 Chestnut St., $95,990; Macey, Henderson & Co., 1215 Tibbett St., $95,590; Chas. H. McCall, 10 North 11th St., $91,905.——Roydhouse, Arey & Co., 1209 Fidelity Bldg., will erect the new passenger station on Glenwood Ave., near Broad St., Germantown Junction, for the Pennsylvania R. R., to cost about $125,000.

PITTSBURG, PA.—J. L. Beatty, Arch., 146 Sixth St., is said to have let the contract for erecting the new Bellevue United Presbyterian Church, to cost about $40,000, to Hays, Sefton & Co.

WILMINGTON, DEL.—Press reports state that the Pennsylvania R. R. will erect a new station here at once. The tracks will be elevated.

WASHINGTON, D. C.—Bids are asked until Oct. 5 for furnishing skylights, corrugated steel roof arches, tile roofing, galvanized iron pipe and fittings, pipe machines, etc., at the government printing office, as stated in our advertising columns. Lieut. John S. Sewell, U. S. Engr., 735 North Capitol St.——Bids are asked until Oct. 9 for erecting a dwelling in the grounds of the naval observatory, Georgetown Heights, D. C.; R. B. Bradford, Ch. Bureau of Equipment, Navy Dept.——The following bids were received Sept. 1 by M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., for constructing the steel frame for a gunner's workshop at the navy yard, (1) being for work complete as per plans and specifications, (2) the price per pound for steel to govern changes in plans or specifications: Penn Bridge Co., Beaver Falls, Pa., (1) $13,843, (2) 3 2-10 cts.; Structural Iron & Steel Co., Baltimore, Md., (1) $15,899, (2) 3.65 cts.; American Bridge Co., Pittsburg, Pa., (1) $13,400, (2) 3 cts.; Snare & Trieste, 39 Cortlandt St., New Work, N. Y., (1) $13,526, (2) 3¼ cts.; Keystone Structural Co., Royersford, Pa., (1) $14,500, (2) 3½ cts.; Stewart Iron Works, Cincinnati, O., (1) $15,580; Henry L. Fo'e, Philadelphia, Pa., (1) $14,475, (2) 3½ cts.

FORT WASHINGTON, MD.—Bids are asked until Oct. 12 for erecting (including electric wiring and hot-water heating) a 12-bed brick hospital building here. Maj. Abe S. Bickham, Q. M., U. S. V., 419 North Washington St., Alexandria, Va.

IRVINGTON, VA.—The county commissioners propose to either repair the present or to build a new county courthouse.

BOWDEN, GA.—Bids are wanted at once for erecting a 2-story brick college building here. J. L. Loveman, Chn.

JUNO, FLA.—W. H. Sanders, Mangonia, writes us that the question of issuing $50,000 in bonds for erecting a courthouse will be voted on at the November election.

PENSACOLA, FLA.—Press reports state that Edwin H. Oliver, Hennin Bldg., New Orleans, La., has prepared plans for the new Episcopal church building, 130 x 86 ft., to be erected at Palafox and Wright Sts.

BIRMINGHAM, ALA.—The new city hall committee is said to have invited local architects to submit plans for the proposed new city hall building, to cost about $200,000.

SELMA, ALA.—Wilson & Edwards, 1416 Main St., Columbia, S. C., write us that bids will be received about Dec. 1 for erecting the new building for the First Baptist Church, to cost about $25,000.

NEW ORLEANS, LA.—We are informed that the Sully, Burton & Stone Co., Hennen Bldg., are preparing plans for rebuilding the Morris Building, which was recently burned.

SHREVEPORT, LA.—Plans and specifications are wanted until Oct. 23 for a building for the Caddo Parish Jail, to cost about $60,000. J. M. Foster, Pres.; A. L. Duranger, Secy.

NATCHEZ, MISS.—Bids are asked until Sept. 25 for erecting a new school house. J. W. Gaddis, Arch., Vincennes, Ind.; Wm. G. Benbrook, Mayor.

LOUISVILLE, KY.—Andrew Carnegie is said to have offered to give this city $125,000 with which to erect a new library building.

NEWPORT, KY.—Bids are asked until Sept. 25 for erecting the new Carnegie public library building. Albert Silva, Secy. Bd. Trus.

CLEVELAND, O.—Frank S. Barnum & Co., New England Bldg., have prepared plans for a 6-story brick and steel building on St. Clair St., near Wood St., to cost about $50,000.

CLEVELAND, O.—Bids are asked, according to reports, until Oct. 5, by the board of control, for erecting a new police station-house.

HARTWELL, O.—Bids are asked by the board of public service until Oct. 9 for erecting a new boiler house at the city infirmary.

LORAIN, O.—E. C. Loofburrow, Cy. Engr., writes us that a special election will be held Sept. 24 to vote on the question of issuing $50,000 in bonds for erecting the proposed new city hall building.

WELLSVILLE, O.—Buildings owned by the Arcado News Co., Silver Banking Co., Krounts' meat market and Woll's shoe store and Mr. Kelly's residence have been destroyed by fire; loss, $50,000.

WABASH, IND.—Bids are asked until Sept. 24 for installing a steam-heating plant in the city hall building. F. McLees, Cy. Clk.; Robert P. Woods, Cy. Engr.

WINONA, IND.—The question of building an agricultural school to cost $50,000 at Winona is being considered.

DETROIT, MICH.—Bids are asked until Oct. 11 for erecting a brick stable for 30 horses at Fort Wayne. Lieut. Col. E. B. Atwood, Ch. Q. M.

MARQUETTE, MICH.—Wm. J. Stevens, Pres. Library Bd., writes us that no plans have yet been prepared for the proposed new library building. It is expected that work will be started next spring. The material for the foundation is on the lot, which is 66 x 100 ft.

PETOSKEY, MICH.—J. H. Daverman & Son, Michigan Trust Bldg., will, it is said, prepare plans for the new 3-story brick city hall building here, to cost about $20,000.

CHICAGO, ILL.—The Ritchie Estate has filed plans for a 5-story brick warehouse at 214-222 Van Buren St., to cost about $100,000.——C. M. Smith has filed plans for a 7-story brick warehouse at 200 and 202 Desplaines St., to cost about $50,000.——L. M. Mitchell, 145 LaSalle St., is said to have prepared plans for a 3-story brick flat, 142 x 50 ft., on Calumet Ave., near 41st St., to cost about $45,000, for Wm. L. Beck.

GALESBURG, ILL.—Bids are asked until Oct. 1 for erecting the new public library building. Albert J. Perry, Chn. Bldg. Com., Commercial Block.

LAKE MILLS, IA.—F. D. Orff, Lumber Exchange, Minneapolis, Minn., writes us that the contract for the new 2-story business block here has been let to A. C. Thomas, Blooming Prairie, Minn.

FARMINGTON, MO.—Bids are asked until Sept. 20 for erecting a power house and about 1,300 ft. of tunnel for the Missouri State Lunatic Asylum No. 4. H. H. Hohenschild, Supt.

MINNEAPOLIS, MINN.—Reports state that the contract for erecting the new buildings at 13th Ave., N. E. and Marshall St., for the Minneapolis Brewing Co., to cost about $175,000, has been let to the Barnett & Record Co., 600 Corn Exchange. S. J. Bowler, Arch., Cullum Block.

ST. PAUL, MINN.—Rev. Thomas Nilsson, Dr. Edward Boeckmann and others are said to be interested in the plan to erect a Norwegian Hospital here, to cost about $40,000.

WHITEHALL, MONT.—Bids are asked until Sept. 20 for erecting a 2-story brick school house. J. W. Morris, School Clk.

BEAUMONT, TEX.—The following bids were received Sept. 12 by Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C., for erecting (except heating, etc.) the new U. S. building: Schumann, Bloss & Co., Cincinnati, O., $51,930, 12 months; Congress Construction Co., Chicago, Ill., $47,680, 12 months; Henry Ferge, Milwaukee, Wis., $62,360, 12 months; Campbell Building Co., Chicago, Ill., $49,468, 12 months; A. Anderson & Co., St. Louis, Mo., $58,258, 12 months; James M. Brown, Houston, Tex., $58,500, 11 months.

WACO, TEX.—The county commissioners are said to have accepted the plans of J. Reilly Gordon, of Dallas, for the new courthouse here, to cost about $200,000.

GUTHRIE, OKLA. TER.—The county commissioners are said to be considering the question of holding a special election, to vote on the question of issuing $50,000 in bonds for erecting a new courthouse to replace the one recently burned.

DENVER, COLO.—It is stated that the contract for erecting the new 3-story brick school house at Columbine St., near 12th St., has been let to A. S. Gray, at $57,224.

SEATTLE, WASH.—The board of education is said to have received the following bids for erecting the new high school building: Alexander Pearson, for superstructure, according to specifications, $187,687, with cut stone $6,850 extra; Megrath, Gribble & Durhamel, for specified work, $155,794, exterior rock faced, $163,393; 4 and 8-in. rubble, $154,945; 4 and 8-in. ashler, $158,285, and for slate treads in iron stairways, $500 to be deducted; McCauley & Delaney, for specified work of pressed brick, with Tenino trimmings, $167,900; another quality of brick and stone, $173,650, entire building to be faced with 4 and 8-in. ashler, $176,500, entire building faced with ashler, 8 and 12-ins., $189,000; James C. Spurr, pressed brick and Chucknut stone, $173,762, stone face $190,679, pressed brick and Tenino, $167,975, stone face $176,880; Anton Berens, for specified finish, $145,485, saw faced stone extra, $5,887; A. E. Barrett, specified finish, $174,500, with stone, $15,500 extra; W. R. Nichols, $164,500, with range rock, $174,000; with cut stone veneer, $183,000; Cawsey & Carney, $147,134, for patent stairs add $2,000, for stone trimmings add $12,000 and for rock face add $15,552. The following were the lowest bids for the plumbing: King & Stickles, $8,640; Swinney & White, $9,338, and the following for the heating plant: The Pacific Heat & Power Co., $19,990, and the Chicago Garden City Fanning Co., $22,662.

PORTLAND, ORE.—Bids are asked by James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C., until Oct. 17 for erecting the new U. S. building.

STOCKTON, CAL.—The following bids are said to have been received Sept. 10 by James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C., for erecting and completing the new U. S. building here: A. E. Barrett, San Francisco, $123,000, 15 months; Clark & Henery, Stockton, $121,874, 16 months; Fred. W. Muller, Stockton, for Arizona stone $108,000, for Calusa or Kyune stone $109,726, 16 months; McPhee Co., San Francisco, $94,862, 390 days; Neish Stone Co., San Francisco, $117,000, 16 months; Pacific Coast Co., San Francisco, $108,973, 12 months; Lingren & Hicks, San Francisco, $109,690, 16 months.

SUISAN, CAL.—Bids are asked until Oct. 1 for erecting an annex to the women's ward of the Salano County Hospital. G. G. Halliday, Clk. Bd. Supvs.

PARIS, ONT.—Fire recently destroyed Meldrum's flour mill, the post office, the Bank of Commerce and a number of other buildings; loss, about $200,000.

WATER-WORKS.

STRONG, ME.—The Strong Water Co. proposes to secure its water supply from Mount Day Pond, 2½ miles distant, and about 839 ft. elevation. The town has not yet decided the number of hydrants nor the amount to be paid.

WOODSVILLE, N. H.—Examinations and surveys for a new water supply will be made this season, but no action towards construction will be taken until March. The present plant is owned largely by the B. & M. R. R. The supply is more or less contaminated with sewage.

WILLIAMSBURG, MASS.—The question of building a new reservoir is being considered. F. A. Brooks and W. M. Purrington are interested.

JAMESTOWN, R. I.—It is stated that the Jamestown Light & Water Co. proposes to build a reservoir and otherwise improve its property this fall. Address Bradford Norman of the company.

NEW BRITAIN, CONN.—The contract for building about two miles of subways in the center of the city has been let to F. D. Sham, Providence, R. I., at $27,500. W. E. Trimby, Engr., New York. The water commissioners have bought 150 acres of land on Wolcott Mount for the proposed reservoir, but no work will be done for several years. E. J. Egan, Water Comr.

AUBURN, N. Y.—The water commissioners are reported as negotiating for a 10,000,000-gallon pump, to cost $40,000.

BUFFALO, N. Y.—The aldermen have directed the board of public works to ask for new bids for furnishing 160 hydrants.

CARTHAGE, N. Y.—An election will be held Sept. 25 to vote on the question of issuing $6,000 in bonds for a steam pumping plant, in addition to the present water-power station. W. S. Schwartz, Clk. Comrs.; Jas. Outterson, Pres.

CLINTON, N. Y.—The village trustees have decided to build a new reservoir, according to reports.

LANCASTER, N. Y.—R. B. Lewis, of Herkimer, N. Y., has been awarded the contract at $38,000 to build the works, furnishing 10 miles of pipe, 76 hydrants, 150 valves, castings, etc. Chas. Millar & Son, Utica, N. Y., have the sub-contract for the pipe and castings, and the Cayuta Wheel & Foundry Co., Sayre, Pa., that for the hydrants, valves, etc.

MIDDLETOWN, N. Y.—An election will be held Oct. 3 to vote on the question of improving the works, to cost about $200,000, as noted in our last issue. W. R. Hill, Engr., New York; W. D. Stratton, Pres. Comrs.; J. M. Hill, Clk.

NEW YORK, N. Y.—The aldermen on Sept. 18 authorized Controller Coler to issue $267,800 in bonds for a new 48-in. main from the Croton Aqueduct, near Gun Hill, for an increased water supply for the Bronx. Plans and specifications for the mains have been prepared and bids will be asked at once. It is also proposed to issue bonds for new pumping stations for a better water service for Brooklyn, besides making other extensive improvements there. Wm. Dalton, Dept. Water Supply, 21 Park Row, will soon ask for $1,000,000 for the purchase of land, etc. Geo. W. Birdsall, Ch. Engr. Dept.

NEW YORK, N. Y.—Bids are asked until Oct. 4 for furnishing cast-iron water pipe, castings, stop-cocks, hydrants, manhole heads, and covers. Wm. Dalton, Comr.

OSWEGO, N. Y.—The Great Bear Water Works Co. has been incorporated with a capital stock of $3,500. Fred. A. Emerick, of Oswego, and Henry E. Nichols, of Fulton.

SHORTSVILLE, N. Y.—An election will be held Sept. 25 to vote on the question of appropriating $300 for surveys and plans for the proposed works, the water supply to be secured from wells or springs; estimated cost $21,000. Up to Sept. 17 no engineer had been engaged. S. H. Davison, Village Clk.; M. E. Goodrich, Chn. Com.

WHITE PLAINS, N. Y.—It is said that Supreme Court Justice Chase has signed a peremptory writ of mandamus directing J. J. O'Brien and Wm. H. Ellis, receivers of the N. Y. & Westchester Water Co., to forthwith supply water from the company's mains to the premises in the village of Wakefield owned by Wm. T. Mopes. This suit was the result of the low supply of water in the Borough of the Bronx, where the second stories of houses are not supplied.

YONKERS, N. Y.—The following bids were received Sept. 15 for improving the works; A. W. Kingsbury, Clk.: Phillips & Worthington, 11 Broadway, N. Y., brick caisson for pump pit $17,900, with steel caisson $17,500; Robt. J. Stewart, Yonkers, brick caisson $18,000, steel caisson $17,500; Armstrong, Newhall & Co., 85 Liberty St., N. Y., brick caisson, $14,548, steel caisson $16,118 (accepted).

YONKERS, N. Y.—Bids are asked until Oct. 9 for furnishing 600 lengths of 4, 6 and 8-in. cast-iron water pipe, as stated in our advertising columns. A. W. Kingsbury, Clk. Bd. Water Comrs.

BRIDGETON, N. J.—The following bids were received Sept. 11 for furnishing a horizontal triple-expansion condensing engine: E. Keeler Co., Williamsport, Pa., $18,750; Henry R. Worthington, New York, $8,480; Barr Pumping Engine Co., Philadelphia, $9,850; Henry G. Morris, Philadelphia, $11,300; Snow Steam Pump Works, Buffalo, N. Y., $9,375; R. D. Wood & Co., Philadelphia, $7,850. The contract will not be let for several days. J. H. Powell, Chn. Water Com.

MILLVILLE, N. J.—The Peoples Water Co., of Millville, has been formed to build works.

VINELAND, N. J.—Bids are asked until Sept. 25 for furnishing the materials and for constructing a power station, smoke stack, steel water towers, two 1,000,000-gallon pumping engines, two boilers, an electric plant, etc., as described in our advertising columns. Alex. Potter, Engr., 150 Nassau St., New York; Dr. J. S. Halsey, Chn. Com.

WESTFIELD, N. J.—Geo. H. L. Morton has applied for permission to build works and operating same for 50 years.

ALLENTOWN, PA.—J. E. Rawlins, of Elmira, N. Y., is making surveys for a water main from Schantz's Spring to the works. The question of issuing $300,000 in bonds for the improvement will probably be voted upon in November.

BEAVER FALLS, PA.—It is stated that a water tower 90 feet high with 12 steel columns, on which will be placed a 62,000-gallon tank is to be located on College Hill to give better fire pressure to this town and also to provide the town of College Hill with water. A similar tower will be erected in Rochester, Pa.

BLOOMSBURG, PA.—It is said that the Bloomsburg Water Co. is drilling prospective wells in the vicinity of the works, looking toward an artesian well water supply.

MOUNT HOLLY, PA.—The question of the township erecting its own works is being considered. The present water company is said to be considering the question of artesian wells and a sand filtration plant. Address B. F. H. Shreve, of the water company, and Mark R. Jooy and Dr. U. P. Kelly, Chn. of the Township Committee.

PHILADELPHIA, PA.—It is stated that bids will soon be asked for the proposed 6,000,000-gallon filtration beds, plans and specifications for which are now being prepared. Rudolph Hering, Chn. Expert Comrs., 100 William St., New York; Wm. C. Haddock, Dir. Pub. Wks.

PITTSBURG, PA.—The Mercantile Trust Co., of Pittsburg, the surety for the Jonathan Clark & Sons Co., of Chicago, who was unable to complete Highland reservoir No. 2, has let the contract to Keeling & Ridge, of Pittsburg. There is about $300,000 worth of work to be done.——Sites for the filtration plant, to cover about 300 acres, are being considered, and it is likely that work on the plants will begin this year. G. W. Wilson, Dir. Pub. Wks.

READING, PA.—The water board has recommended the filtration of the water supply from Antietan reservoir; estimated cost, $50,000. Address Commissioners Felix, Heller and Fry.

SCRANTON, PA.—The Huntington Water Supply Co. has been incorporated with a capital stock of $60,000.

HYATTSVILLE, MD.—The contracts for constructing works will be let under certain conditions to Guild & Co., of Chattanooga, Tenn., at about $26,000. Over 50 bids were received on the various items. Frederick Minshall, Engr., Norfolk, Va.; J. R. Owens, Pres. Council.

LURAY, VA.—E. A. Wilson, of Salisbury, N. C., is said to have been awarded the contract for building gravity works. The contract for the pipe has been let to the Glamorgan Pipe & Foundry Works, of Lynchburg, Va., and that for the terra-cotta to the Smith-Courtney Co., of Richmond, Va.

SMITHFIELD, VA.—Bids are asked by the Smithfield Water Co. until Sept. 25 for furnishing a tower and a 62,000-gallon tank and a 250,000-gallon power pump, as advertised in Engineering News Aug. 30. The bids for the works received Sept. 10 are published under Contract Prices. Hite-Smith & Minshall, Engrs., 605 Columbia Bldg., Norfolk, Va.

WOODSTOCK, VA.—P. S. Roller, Cy. Engr., of Woodstock (address, Mount Jackson, Va.), wants prices on both wrought-iron and cast-iron water pipe for a line about 15 miles long.

ALBEMARLE, N. C.—The question of an artesian well water supply for this place is being agitated by J. M. Morrow.

HIGH POINT, N. C.—This place will hold an election Oct. 9 to vote on the question of issuing $50,000 in bonds for works. J. J. Cox, Mayor; L. Flagler, Secy.

ATLANTA, GA.—The citizens' committee has recommended that authority be obtained from the legislature for a bond issue of $300,000 for extending the water mains, installing more boilers, filters and a third pumping engine. Bids are asked until Sept. 28 for a 15,000,000-gallon pumping engine, as stated in our issue of Sept. 6. H. H. Cabaniss, Chn. Citizens' Com.; G. W. Harrison, Pres. Water Bd.

MARIETTA, GA.—The Marietta Water Works Co. has been incorporated with a capital of $50,000, later to be increased to $100,000, for building works. J. D. Wolcott, of Toledo, O., and Jos. Paige, Marietta, are interested.

MONTGOMERY, ALA.—The U. S. Cast-Iron Pipe & Foundry Co., Chicago, has been awarded the contract for 7,000 ft. of water pipe.

ALEXANDRIA, LA.—John Runshang, of Alexandria, is reported to have been awarded the contract at $3,994 for building a 300,000-gallon reservoir.

SHEFFIELD, TENN.—It is stated that in about 70 days arrangements will be completed for building works.

BARBERTON, O.—H. D. Shannon & Co., of Orrville, O., is said to have been awarded the contract for extending water mains at $9,733.

COLUMBUS, O.—Sam'l M. Gray, of Providence, R. I., is reported by local papers to be in favor of two systems of water filtration. Plans for a new distributing system and natural and mechanical filtration plants will be prepared.

LIEPSIC, O.—Bids are asked by the town clerk until Oct. 13 for constructing works. G. L. Kibben, Engr., Van Wert, O.

NEW PHILADELPHIA, O.—The council has agreed to buy the works of the New Philadelphia Water Co. for $97,000. The property, it is understood, will be transferred to the city Nov. 1.

WAYNESVILLE, O.—Bids are asked by the city clerk until Oct. 1 for building works, according to reports. G. L. McKibben, Engr., Vanwert, O.

ZANESVILLE, O.—Bids are asked until Oct. 11 for a mechanical filtration plant, etc., to cost about $60,000. C. H. Painter, Cy. Clk.

WARREN, IND.—H. D. Hallett, Aurora, Ill., has been engaged to prepare plans, etc., for works and an electric plant. Gas power will be used.

DETROIT, MICH.—The following bids were received Sept. 11 for one or two 25,000,000-gallon pumping engines, working at 135 to 150 lbs. steam presssure against an hydraulic head of 60.100 lbs., including suction; the guaranteed duty is to be not less than 140,000,000 ft. pounds of work per million heat units, and the delivery 1 year and 8 months:

	1 Engine.	2 Engines.
E. P. Allis, Milwaukee, Wis.	$140,000	$276,000
Camden Iron Works, Camden, N. J.	139,000	270,000
Dickson Mfg. Co., Scranton, Pa.	137,000*	†261,400
Detroit Shipbuilding Co., Detroit	173,000	340,000
Kilby Mfg. Co., Cleveland, O.	148,750	295,500
Holly Mfg. Co., Lockport, Ky.	149,900	294,800

*And $109,000 †And $206,800.

GRAND RAPIDS, MICH.—Local papers state that the board of public works will soon ask for propositions for furnishing this city with a water supply from Lake Michigan. A reservoir of 60,000,000 gallons capacity, a main pipe 5 ft. in diameter, etc., will be required. Bidders will prepare their own plans and specifications. Bond, $100,000. Mayor Perry may be addressed.

ST. CHARLES, MICH.—This place has voted to issue $10,000 in bonds for works, surveys for which are being made by John Tefft, as noted last week. E. V. Parsons, Chn. Com.

CHICAGO, ILL.—L. E. McGann, Comr. Pub. Wks., is said to be considering the question of installing water meters in the building at the stock yards.

FLORA, ILL.—Frank MacKean, of Carlyle, Ill., it is stated, will prepare plans for works. Bids for a new pipe line for Woodstock, Ill., were received Sept. 17 by E. C. Jewett, Pres. Bd. Local Improvements, Woodstock.

MOLINE, ILL.—Mayor Wessel and Alderman Perrine are in favor of purchasing a 5,000,000-gallon pump at once. It is also proposed to build a 4,000,000-gallon mechanical filter plant, to cost about $60,000, and to make extensions to the water mains.

ROCK ISLAND, ILL.—Bids are asked until Oct. 1 for furnishing a 1,500,000-gallon power plant, a 75-HP. electric motor, etc., as stated in our advertising columns. C. M. Witherell, Supt. Water Wks.; Wm. McConochie, Mayor; Henry C. Schaffer, Cy. Clk.

SPRINGFIELD, ILL.—The committee has decided to extend the water mains in four streets.

MONDOVI, WIS.—This place has voted to issue $18,000 in bonds for the proposed works, noted in our issue of Aug. 30. A. M. Patitiz, Engr., Milwaukee, Wis.

SHEBOYGAN, WIS.—The board of appraisers to make a valuation of the works of the Sheboygan Water Co., consisting of J. B. Heim, of Madison, Wis.; D. W. Mead, J. W. Alvord and Benezette Williams, of Chicago, and Geo. H. Benzenberg, of Milwaukee, has reported that the plant is worth $396,000, and the franchise $136,000.

TWO RIVERS, WIS.—T. C. Grey, of Manitowoc, Wis., and S. D. Miller, of Chicago, have submitted propositions to build works and an electric plant to cost $20,000. An election to vote on the question will soon be held.

GREENE, IA.—Bids are asked until Sept. 29 for constructing, to include 10,000 ft. of 4, 6 and 8-iin. pipe, a pump of 750 gallons a minute, etc., as noted in our issue of Aug. 16. F. L. Stober, Clk.

KEOKUK, IA.—A resolution authorizing the purchase of the works has been introduced by Alderman Landman.

RYAN, IA.—It is stated that this place will build works.

DASSEL, MINN.—The question of works is being considered, according to reports.

IOLA, KAN.—The following bids were received Sept. 11 for constructing works, as advertised in Engineering News. Burns & McDonnell, Engrs., 406 Posta; Telegraph Bldg., Kansas City, Mo.; W. H. McClure, Mayor; W. W. Cook, Junction City, Kan., $59,473; Geo. L. Hopper & Co., Arkansas City, Kan., $60,223; W. A. Esson & Co., Stock Exchange Bldg., Chicago, $61,093; Guild & Co., Chattanooga, Tenn., $62,900; Thos. H. O'Neill, Kansas City, Mo., $71,956. The itemized bids for the pipe, valves, etc., will be published next week.

TOPEKA, KAN.—It is stated that the works will probably be transferred to the city by Jan. 1. W. W. Follett, of Denver, Colo., and John A. Cole, of Chicago, Ill., are making a valuation of the works. Address Mayor Drew and Alderman Hughes.

GREAT FALLS, MONT.—C. Mason, of Butte, Mont., is reported as preparing a report for improving and extending the works.

LEWISTON, MONT.—Bids are reported as wanted at once by the Big Fork Electrical Power Co. for a flume, to be 2,000 ft. long.

SAN ANTONIO, TEX.—At a meeting of the council Sept. 10 Alderman Wm. Davis, Chn. Special Com., appointed at a former meeting of the council to investigate the advisability of the city constructing its own works, recommended that the city construct and operate its own system. On motion of Alderman Thiele the report was adopted and a special committee, consisting of Aldermen Davis, Thiele, Surkey and Parker, was appointed to devise ways and means of carrying out the recommendation.

SPOKANE, WASH.—Bids will probably be received in December for the proposed standpipe, to have a capacity of 250,000 gallons; estimated cost, $12,000. O. C. Weile, Cy. Engr.; F. P. Weymouth, Chn. Com.

COQUILLE, ORE.—The city council is said to have accepted the proposition to purchase the works.

ROSEBURG, ORE.—The Roseburg Water & Light Co. has asked for a franchise.

HAYWARD, CAL.—The question of municipal works, to cost $50,000, is being considered by Trustees Heyer, H. E. Brunner and Petersen.

LOS ANGELES, CAL.—The San Gabriel Electric Co. and the San Gabriel Water Co. have made application for a reservoir site and a route for a pipe line.

SAN DIEGO, CAL.—Press reports state that the Southern California Mountain Water Co. has decided to push on to completion the water system that have been under development for the past three years. During the past year there has been but little done on the various water developments of the company, but now it is the intention to complete them by June. This is the direct result of a contract made between the San Diego Land & Town Co. and the water company, whereby the latter is to furnish water for 12,000 acres of land at Chula Vista, the delivery to begin Jun 1. This contract means the completion of the Morena and Barrett reservoirs, which will cost about $1,000,000, and the construction of five miles of 40-in. wooden pipe.

TUCSON, ARIZ.—Henry Branch, Supt. Water-Works, and Assistant Superintendent Gasser have submitted reports recommending an increased water supply at the new pumping station, the abandonment of the old station, an increased pressure, the extension of the mains, etc.

SALT LAKE CITY, UTAH.—It is proposed to build a 3,000,000-gallon reservoir in City Creek Canyon, at a cost of $20,000.

CHATHAM, N. B., CAN.—Bids for building the proposed works, to cost $110,000, and the electric plant, to cost $10,000, will be wanted early in the spring. Lea & Coffin, Engrs., Montreal, Que., and 53 State St., Boston, Mass.; A. McIntosh, Chn. Com.; T. M. Gaynor, Clk.

CAYUGA, ONT.—The question of building works in connection with the proposed electric plant is being considered, according to reports.

CORNWALL, ONT.—An election will be held Sept. 25 to vote on the question of issuing $19,000 in bonds for extending the mains, etc.

PORT HOPE, ONT.—Bids are asked until 6 p. m. Sept. 20 for furnishing the materials and for constructing improvements to the works, to consist of a compound duplex pumping engine of 1,000 gallons a minute, a steam boiler 14 ft. × 66 ins.; a steel water tower 25 × 65 ft., and stone foundations. R. E. Speakman, Engr., Canada Life Bldg., Toronto, Ont.; R. Gray, Secy. Comrs.

SHELBURNE, ONT.—Bids are asked until 5 p. m. Sept. 20 for extending the works. D. C. Dunbar, Clk.; C. R. Wheelock, Engr.

MONTREAL, QUE.—Superintendent Marien, of the water-works, has reported that the proposed electric pumping plant at the high level reservoir will cost about $30,000. There will be two electric motors of 5,000,000 gallons capacity. It is intended to put in one pump at once.

WINNIPEG, MAN.—Wm. T. Jennings, Molson's Bank Bldg., Toronto, Ont., has submitted a report on the condition of the pumping station. He states, according to local papers, that the buildings and machinery are crowded, and that the foundation is in a bad condition, and recommends the sealing of the well and the removal of electrical machinery to another building.

KASLO, B. C.—Improvements to the works are to be made at once, according to reports, the new water supply to be secured from MacDonald Creek.

SEWERAGE.

ROCHESTER, N. H.—The council has appropriated $3,000 for constructing new sewers, according to reports.

BEVERLY, MASS.—It is stated that no work will be done on the proposed sewer for Ward 3 this year.

LAWRENCE, MASS.—The board of aldermen has decided to borrow $25,000 for completing the Shanty pond sewer.

WAKEFIELD, MASS.—Wm. B. Daniel, Secy. Sewer Comrs., writes us that it is proposed to construct a system to connect with the North Metropolitan Sewerage system. Orlando K. Morgan, Town Engr.

PROVIDENCE, R. I.—Bids are asked until Sept. 24 for constructing about 1,855 ft. of 12-in., 935 ft. of 15-in. and 270 ft. of 20-in. pipe sewers in Pricilla Ave., Pond, East George and East Transit Sts. Robt. E. Smith, Comr.

ROCKVILLE, CONN.—The question of appropriating $3,000 for constructing a sewer in McLean St. and $1,000 for repairing culverts is being discussed.

COHOES, N. Y.—The improvement commission has asked the council to issue $4,748 in bonds for new sewers.

FISHKILL LANDING, N. Y.—The village trustees are said to have let the contract for constructing the new storm sewer to Wm. H. Peattie, at $2,026.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 21 Park Row, until Sept. 26 for constructing sewers in Prospect and Crotona Aves., Crotona Park North and 175th St., Bronx Borough, and East 19th St., Brooklyn, and also for constructing a sewage disposal plant in Jamaica, Queens Borough. Jas. Kane, Comr.

NEW YORK, N. Y.—Bids are asked by the department of parks, Arsenal, Central Park, until Sept. 27 for constructing a sewer in Riverside Drive, and also for furnishing and laying about 80,000 sq. ft. of grass sod and 1,500 cu. yds. of garden mould in Harlem River Park.

BRIDGETON, N. J.—Bids are asked by the purchasing committee of the council until Sept. 25 for constructing about 500 ft. of 8-in. pipe sewer. Theodore B. Woodruff, Chn. Com.

MOORESTOWN, N. J.—Dr. Joseph Stokes, Chn. Township Com., will receive plans and specifications for methods of sewage disposal for this town. Population about 4,000.

ALLEGHENY, PA.—D. L. Fulton, Supt. Bureau of Highways and Sewers, is urging the introduction of the septic tank system of sewage disposal, the tanks to be built on Brunot's Island.

ALLEGHENY, PA.—The council has awarded the following contracts to John Schlipp, main sewer in Milroy Ave., $2,535; lateral sewers on Bothwell Ave., $1,079, and Tioga St., $523.

BANGOR, PA.—E. B. Byington, of the Sanitary Sewer Co., of Philadelphia, has submitted a proposition to build a system.

BEAVER, PA.—Smith Curtis, Burgess, writes us that no sewers at present will be constructed by the borough, but a private sewer may be built.

WEST ELIZABETH, PA.—Bids are asked until Sept. 22 for constructing a 24-in. sewer in Washington St. James Arthurs, Pres. Council.

HAGERSTOWN, MD.—John W. Recher, Clk., writes us that it will be some time yet before the question of sewerage will be taken up.

ST. MARY'S, W. VA.—Reports state that the council has let the contract for sewer construction to Kramor Bros., of Parkersburg, at $4,103.

NEW ORLEANS, LA.—The following bids were received by the sewerage and water board Sept. 12 for sedimentation tanks, etc., to contain about 130,000 ft., B.M., of lumber; F. S. Shields, Secy.; Geo. C. Earl, Gen. Supt.:

Items.	Ferd. Lange (accepted).	C. G. Engelman & Co.	J. M. Kelly.
Sedimentation tanks	$3,944.00	$5,393.00	$6,106.00
Pump platform room	105.00	159.00	127.00
Cribbing under tanks	169.00	378.00	157.00
Trestl'g for elevat'g tnks	155.00	343.00	256.00
Total	$4,373.00	$6,273.00	$6,646.00
Lumber (more or less)	$28.00	$18.00	$28.00
Iron (more or less)	.08	.04	.05

NEWPORT, KY.—We are informed that the council has passed a resolution to lay about 15,000 ft. of 8 to 30-in. pipe sewers and some 3-in. brick drains. W. L. Glazier, Supt. Pub. Wks.

BIRMINGHAM, O.—It is stated that the council will construct a sewer in Whitemore St., and one in the alley between Front and Genessee Sts., to cost about $17,000.

CLEVELAND, O.—The park board is said to be considering the question of constructing a 10-in. main sewer in the new boulevard, and a 6-in. main in Lakewood Ave., to cost about $30,000.

COLUMBUS, O.—Julian Griggs, Ch. Engr., writes us that a special election will soon be held to vote on the question of issuing bonds for constructing sewers in the North Side and also in a number of other streets in various parts of the city. No date has yet been set.

DELAWARE, O.—Press reports state that the council has decided to submit to the voters at the November election the question of issuing bonds for constructing a system to cost between $75,000 and $100,000.

SPRINGFIELD, O.—The board of public affairs is said to have directed the city clerk to advertise for bids for constructing the Woodlawn Ave. sewer.

TOLEDO, O.—Bids are asked until Sept. 24 for constructing 8 to 15-in. pipe sewers in Woodville and Madeleine St. and in the alleys in the Navarre Highland's addition; also for 8 to 12-in. pipe sewers in Blair and Delaware Aves., Albion St., and the alleys in the blocks bounded by Clifton St., Ayers, Blaine and Delaware Aves. J. E. Connell, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until Sept. 21 for constructing a sewer in the first alley east of Meridian St.

TERRE HAUTE, IND.—Bids are asked by the board of public works until Sept. 21 for constructing a pipe sewer in 13th St., and also for constructing a brick sewer in College Ave. S. C. Beach, Secy. Bd.

WABASH, IND.—We are informed that the contract for constructing a sanitary sewer in Elm St. was let Sept. 10 to Valentine Smith.

IRON MOUNTAIN, MICH.—The council has passed a resolution of intention to construct 8-in. sewers in Hughitt and Ludington Sts. James D. Cudlip, Cy. Clk.

JACKSON, MICH.—The board of public works is said to be considering the question of constructing a sewer in Chapin St.

DUBUQUE, IA.—The council has directed the city recorder to advertise for bids for constructing a stone arch sewer in Couler Creek and Elm St.

MUSCATINE, IA.—The following bids have been received by the council for constructing sewers in improvement district No. 17: D. A. McGugin, Davenport, $18,718; Elijah Baker, $17,581; Fuller Bros. (accepted), $16,671, and the following for constructing sub-sewer No. 8 in main sewer district No. 1: J. G. Gunzenhauser, $830; Fuller Bros., $807.

OMAHA, NEB.—Councilmen Clifton, Johnson and Trainor are on the special committee to investigate the condition of Mud Creek and the needs of a sewer, which, if built, would cost about $120,000.

LEAD, S. DAK.—Press reports state that the council has let the contract for constructing the new system to Patrick McDonnell, McDonnell Block, Duluth, Minn., at about $57,350. Andrew Rosewater, Engr., Omaha, Neb.

ST. JOSEPH, MO.—J. R. Rackliffe, Cy. Engr., writes us that about $500,000 is to be expended in extending the Blacksnake sewer.——The council is said to have appropriated $1,500 for extending the Sycamore St. sewer.

DURANGO, COLO.—It is stated that the council has appropriated $11,000 for constructing a system in Silverton.

FLORENCE, COLO.—Bids are asked until Oct. 15 for constructing a system of sanitary sewers, as follows: About 27,210 lin. ft. of 8 to 12-in. pipe sewers, 4,900 ft. of 15 to 24-in. pipe sewers, 40,000 cu. yds. of earth excavation to be taken from trenches about 32,000 ft. long and from 8 to 14 ft. deep, 20 5-in. flush tanks, 50 manholes and 14 lampholes, as stated in our advertising columns. E. B. Ruddick, Cy. Clk.; A. B. McFall, Cy. Engr.

LOS ANGELES, CAL.—We are informed that bids will be received about Oct. 1 for about 408 ft. of 8-in. pipe sewers, average cut 9 ft., in Patton St.; also that about 818 ft. of 8-in. pipe sewers, average cut 12 ft., will be constructed in Alvarado St. No date has been set for letting contracts for the latter and it may be some time before bids are asked. Frank H. Olmsted, Cy. Engr.; J. H. Drain, Supt. Sts.

OAKLAND, CAL.—The city engineer is said to have been directed to prepare an estimate of the cost of constructing the proposed system in the annexed district.

PASADENA, CAL.—The trustees have passed a resolution of intention to construct sewers in Adella Ave., Walnut, Villa and Parke Sts. Heman Dyer, Cy. Clk.

PETALUMA, CAL.—Bids are asked until Oct. 1 for constructing a 6-in. pipe sewer in B St. A. S. Newburgh, Cy. Clk.

SAN FRANCISCO, CAL.—The board of public works has decided to construct a 12-in. pipe sewer in Andover Ave. J. L. Park, Secy. Bd.

OGDEN, UTAH.—Reports state that the city engineer has estimated the cost of constructing 7 blocks of sewers on 21st and 22d Sts. at about $15,687.

LONDON, ONT.—The council will, according to reports, take up the question this fall of sewage disposal.

MIDLAND, ONT.—The council is said to have engaged R. E. Speakman, of Toronto, to prepare plans and specifications for a system and water-works.

GARBAGE DISPOSAL—STREET CLEANING

ATLANTIC CITY, N. J.—The council has appropriated $16,000 for six new street sprinkling carts, twelve new garbage wagons, fire and police signal boxes, etc. Address Councilman Leeds, Chn. Sanitary Com.

LONG BRANCH, N. J.—Reports state that the franchise awarded by the Long Branch commission, granting to the F. G. Smith Co. the exclusive right to collect and cremate the garbage of Long Branch for 20 years, was on Sept. 11 set aside in an opinion by Justice Collins. About $20,000 has been expended by the company on a crematory.

SOUTH ORANGE, N. J.—The following bids were received by the trustees Aug. 31 for collecting and disposing of the garbage, waste, etc., up to Sept. 17 the contract not having been let: David McCullough, plan No. 1, $3,200; No. 2, $2,250; No. 3, $2,750; No. 4, $2,100. Chas. E. Anen, $2,150, $1,465, $2,370, $1,380. Kernan & Bogli, $2,304, $1,296, $1,368, $1,152. Frank R. Meyer, $2,350. Philip Detrich, $3,400, $2,040, $2,800, $1,800.

OIL CITY, PA.—Th Dixon Garbage Crematory Co., the Wright Crematory Co., and the Davis Crematory Co. have submitted bids ranging from $2,500 to $4,500 for furnishing a crematory.

READING, PA.—Local papers state that the committee, composed of Councilmen Shomo, Mersinger and Beard, will recommend the purchase of another plant, to cost $20,000.

SEWICKLEY, PA.—The question of a better method of garbage disposal is again being considered.

BALTIMORE, MD.—Commissioner of Street Cleaning Iglehart is in favor of an entirely new method of garbage disposal, and will soon make recommendations.

HAMILTON, O.—It is stated that Dr. H. Smedley, Health Officer, has recommended the building of a crematory.

LA PORTE, IND.—It is reported that this place will build a crematory.

PEORIA, ILL.—The council has been petitioned by Geo. Alfs and 300 others to build a crematory. Dr. Bourscheidt, of the health board, is in favor of a crematory.

ST. LOUIS, MO.—O. G. Shands, of the Thompson & Gray Quarry Co., which bid two years ago for the garbage collecting contract, has brought suit to declare void the contract awarded by the board of health to the Excelsior Hauling & Transfer Co. for collecting and disposing of the garbage for ten years from July 15, 1898.

SALT LAKE CITY, UTAH.—Keifer & Rush submitted the only bid Sept. 4 for the standpipe sprinkling system, but withdrew it before the meeting of the board.

STREETS AND ROADS.

NEW HAVEN, CONN.—Bids are asked until Sept. 21 for paving Temple St. with brick. C. W. Kelly, Cy. Engr.

WATERBURY, CONN.—The board of finance has recommended an appropriation of $10,000 for grading and guttering a number of streets.

ALBANY, N. Y.—The council has passed an ordinance appropriating $70,000 for resurfacing Madison Av.

BROOKLYN, N. Y.—The west end board of trade has decided to ask the board of estimate to have Fourth Ave. paved with asphalt. The improvement will cost about $15,000.——The question of building a board walk at Coney Island from the Concourse to Sea Gate, is being considered.

COHOES, N. Y.—The improvement commission will ask the council to issue $12,661 in bonds for extending Gardner St., according to reports.

KINGSTON, N. Y.—Bids are asked until Oct. 5 for paving a portion of John St. with asphalt blocks, as stated in our advertising columns. Plans and specifications are on file at the office of the Engineering News Publishing Co., 220 Broadway, New York, N. Y. John T. Cummings, Cy. Clk.

NEW YORK, N. Y.—Bids are asked by the department of bridges, 21 Park Row, until Oct. 1 for repairing the asphalt on Washington, Macomb's Dam, and the Third Ave. Bridges over the Harlem River, requiring about 13,500 sq. yds. of asphalt patching on Washington Bridge, 500 sq. yds. of asphalt patching and 1,842 sq. yds. of new asphalt on Macomb's Dam Bridge and about 400 sq. yds. of asphalt patching on the Third Ave. Bridge.——At the same time the board will receive bids for constructing sidewalks on the approaches to the Third Ave. Bridge, requiring about 22,000 lbs. of iron and steel, 700 cu. yds. of Portland cement concrete, 2,150 sq. yds. of cement footwalks and curbs, etc. John L. Shea, Comr.

TARRYTOWN, N. Y.—The village trustees of North Tarrytown have given permission to John D. Rockefeller to grade and improve the junction of the Bedford road with the Sleepy Hollow and County House roads. Mr. Rockefeller intends to build a new road from Pocantico Hills, and to change and improve the grade of the old roads which intersect there.

ATLANTIC CITY, N. J.—Bids are asked until Nov. 7 for constructing a gravel road from Egg Harbor City to a point in the Little Egg Harbor River, opposite Green Bank, about seven miles, as stated in our advertising columns. John T. Irving, Dir., Elwood; J. J. Albertson, Engr., Magnolia.

TRENTON, N. J.—The following bids have been received by the stone road committee for stoning the Ashland road between Coffin's corner and the White Horse turnpike. J. B. Shanley, $14,000; D. L. Roe, $15,500; J. M. Ireland, $14,300.

PITTSBURG, PA.—Bids are asked by the department of public works until Sept. 22 for laying new and reconstructing old brick and flagstone sidewalks for a period ending April 30, 1901. Geo. W. Wilson, Dir. Dept.

WILMINGTON, N. C.—B. T. King, Clk., writes us that the city will spend about $46,000 this year in street improvements. The work will be done by day labor.

JACKSONVILLE, FLA.—The board of public works has directed the city engineer to prepare estimates of the cost of paving Adams, Duval and Catherine Sts., and also of shelling Highway.

BESSEMER, ALA.—We are informed that bids were asked until Sept. 18 for about 1,862 sq. yds. of cement sidewalks with brick or stone gutter. W. J. Parker, Engr., Birmingham; E. L. Mitchell, Cy. Clk.

NEW ORLEANS, LA.—Bids are asked until Sept. 24 for laying a block pavement on North Pitts St. and for laying sidewalks on Camp St. V. Tujaque, Compt.

NEWPORT, KY.—We are informed that a movement is on foot to extend Central Ave. and Patterson and Isabella Sts. over the C. & O. and L. & N. tracks, using overhead viaducts. Nothing definite has been done as yet. W. L. Glazier, Supt. Pub. Wks.

AKRON, O.—Bids are asked by the city commissioners until Oct. 13 for improving Wolf St., according to reports.

BUCYRUS, O.—The following bids are said to have been received by the council for improving Middletown St.: Charles Davis, $2,453; John Sayler, $2,456; J. F. Wingert, $2,396; A. H. Gardner, $2,426.

HOME CITY, O.—Bids are asked until Oct. 5 for improving Independence St. E. W. Wulfekoethe, Jr., Engr.; J. O. Falkinburg, Village Clk.

LIMA, O.—C. E. Lynch, Cy. Clk., writes us that all bids for paving streets and alleys received August 30 and 31, and tabled until Sept. 10, have been rejected. The work will now lay over until next spring.

NORWALK, O.—Bids are asked by the city clerk until Oct. 16 for constructing sidewalks on a number of streets.

SPRINGFIELD, O.—Press reports state that the council is considering the question of paving Lagonda Ave.

TOLEDO, O.—J. Sheehan is said to have submitted the lowest bid at $9,682 for paving Melrose Ave. with asphalt block, and H. J. Bower submitted the lowest, at $5,217, for paving Jervis St. with brick.

YOUNGSTOWN, O.—Bids are asked until Sept. 29 for curbing and improving South Ave. and McKinnie and Mulberry Sts. C. E. Cross, Cy. Clk.

YOUNGSTOWN, O.—Bids are asked by the board of city commissioners until Oct. 6 for paving Wood and West Boardman Sts. and for constructing a sewer in Mulberry St.

EVANSVILLE, IND.—The board of public works is said to have adopted resolutions for about 1,100 ft. of brick pavement on Franklin St. and 1,300 ft. on St. Joseph St.

DETROIT, MICH.—The board of public works has submitted the following estimates to the council: Repaving Grandy Ave. with blocks, $4,000; repaving Porter St. with blocks, $1,125; repaving Watson St. with blocks, $2,605; paving St. Antoine St. with blocks, $2,500; paving 14th St., $2,500, and Congress St., $1,200. J. W. Miller, Pres.

GRAND RAPIDS, MICH.—The council has passed resolutions providing for the paving of New England Place and Ionia St. with brick and Canal St. with sheet asphalt.

PEORIA, ILL.—Press reports state that the board of local improvement has let the contract for paving South Adams St. with brick to James S. Allen, 713 Hamilton St., at $13,200. Joseph Elder, Comr.

ROCK ISLAND, ILL.—It is stated that the county commissioners have been petitioned to improve the River Road.

ATCHISON, KANS.—The council is said to have let the contract for paving Seventh St. to ex-Mayor M. J. Cloyes at $15,827.

DALLAS, TEX.—Bids are asked until Oct. 3 for laying about 31,000 sq. yds. of asphalt pavement on a concrete foundation, to cost about $50,000. Hugh Raines, Cy. Engr.; I. A. Moore, Cy. Clk.

SAN ANTONIO, TEX.—We are informed that the contracts for paving several streets with rock asphalt have been let to the Parker Washington Asphalt Co., 23d and Penn Sts., Kansas City, Mo., the itemized bids for which were given in our last issue. E. J. Truehart, Cy. Engr.

SEATTLE, WASH.—The board of public works has directed the city engineer to alter the plans and specifications recently prepared for improving Eighth Ave.

TACOMA, WASH.—Local papers state that the mine owners in the Tahoma mining district propose to build a wagon road from Fairfax to the mining district.

OAKLAND, CAL.—The board of public works has been authorized to advertise for bids for repaving East 12th St.——The council is said to have passed resolutions of intention to macadamize Denison, East Tenth, East 21st and 23d Sts.

SACRAMENTO, CAL.—The board of supervisors is said to have received the following bids for grading and macadamizing the Riverside Road: James A. McMahon, $4,280; W. J. Schmidt, $6,850, with $2.90 per cu. yd. for extra rock; James Touhey, grading road, etc., $950; 2.79 yds. rock at $2.50.

MANUFACTURING PLANTS.

LOWELL, MASS.—It is stated that William Warren, chemist of the Merrimac Print Works, has patents on a new fiber factory which will be located in this town.

WEBSTER, MASS.—It is stated that preliminary arrangements have been completed for the construction of the yarn mill in this village. The mill is to be in operation by January. L. D. Perry, Dudley, is interested.

ONEIDA, N. Y.—A knitting mill is to be established in this place. Willard J. Frisbie, Camden; Geo. A. Frisbie, Utica, and Jessie Barton, Reading, Pa., are interested.

ERIE, PA.—Fire is reported to have damaged the plant of the Erie Lithographing & Printing Works to the extent of $40,000.

PHILADELPHIA, PA.—Plans are being prepared by W. C. Prickett, Jr., Arch., 424 Walnut St., for a factory to be erected at 227 South Sixth St.

PHILADELPHIA, PA.—Schermerhorn & Reinhold, Archs., 430 Walnut St., inform us that bids are now being received by Wm. J. Donaldson, 503-504 Betz Bldg., Philadelphia, for the buildings of a plant to manufacture cement bricks, and contracts for the equipment will be let at once. The buildings will cost about $200,000, and the equipment about $60,000.

PITTSBURG, PA.—Local papers state that the Carnegie Steel Co. will build a rod mill in connection with the new group of finishing mills to be built at Duquesne.

SHARON, PA.—It is stated that a steel hoop mill will be erected in connection with the steel works and tinplate mill now building at South Sharon. F. V. Buhl, John Stevenson, Jr., Sharon, and Clark Bros. of Pittsburg, are interested.

NEWBURG, S. C.—W. H. Day, Pres. and Treas., Newburg, informs us that contracts for the buildings for the proposed hosiery factory will be let this month; estimated cost, $2,500. The equipment, which will cost about $10,000, will be purchased at once. One 25-HP. boiler and a 15-HP. engine will be needed. Contracts for the knitting machinery are now being made.

ROME, GA.—It is stated that a new cotton mill is to be erected here. The mill will be known as the Anchor Duck Mill and will be capitalized at $20,000. C. E. McLin is interested.

HUNTSVILLE, ALA.—Arthur M. Lowe and other directors of the Park Hill Mfg. Co., of Fitchburg, Mass., are reported to be arranging for the incorporation of a company to build the Lowe cotton mill of 10,000 spindles.

HUNTSVILLE, ALA.—The contract for building a 10,000 spindle mill for the Lowe Mfg. Co. has ben let to Geo. N. Hinman, Atlanta, Ga., according to reports.

TALLEDAGA, ALA.—Reports state that Col. J. M. Lewis, Baltimore, and D. L. Lewis, Sycamore, are preparing to build a $500,000 yarn mill at Thorn Mill, about three miles from this place. The plant will have 20,000 spindles.

HARRIMAN, TENN.—The secretary of state has granted a charter to the Harriman Cotton Mills Co.; capital stock, $50,000. The company will soon build a cotton mill in this town. Andrew Crinkley, Wm. Brown and Robt. B. Cassem are interested.

KNOXVILLE, TENN.—A representative of J. E. Marquis, Sharon, O., is said to be in this city preparing to locate a large basket, crate and hoop factory.

DOYLESTOWN, O.—Reports state that an aluminum plant is to be established here.

PORT HURON, MICH.—Fire destroyed the entire plant owned by the McMorran Milling Co., the Port Huron & Northwestern Elevator Co. and D. McMorran Co., according to reports. The loss is reported at about $225,000.

BAKER CITY, IA.—It is reported that the Oregon Reduction Works will build a smelter plant in this city to cost about $1,000,000, and a branch smelter in Burkement. A railway connecting Baker City with the nearest railroad is also projected. Letson Balliet, Civil Engr., Des Moines, Ia., is said to be interested.

CUERO, TEX.—It is reported that plans are now being prepared for the proposed mill in this town, for which a site has been purchased. The construction is to be started this fall.

GONZALES, TEX.—A location for the cotton mill to be established here has been secured, and plans are now being prepared.

HOUSTON, TEX.—It is stated that the Merchants' & Planters' Oil Mill was destroyed by fire on Sept. 16. The loss is reported at about $350,000.

DINUBA, CAL.—The Hooven Mercantile Co. has secured a tract of land on which it will locate the buildings of its by-product factory, consisting of pressing, grinding, drying, cleaning, refining, engine and boiler rooms, warehouse and refinery. The entire enterprise will cost about $80,000.

LOS ANGELES, CAL.—Plans are reported to have been completed by the Palmer-Nicholls Co., of Providence, R. I., for the establishment of a large plant for the manufacture of magnet wire and other kinds of wire for the transmission of electric energy.

LOS ANGELES, CAL.—Capitalists from this city have chosen J. H. Bradshaw and G. F. Paulk to select a location for a glass factory on the southern California coast. It is stated that about $2,000,000 will be expended upon the enterprise.

MONTREAL, QUE.—Reports state that the Montreal-Canadian Pulp & Paper Corporation, of which Edmond de Vylder and Herman Cornet, of Brussels, Belgium, are said to be the principal stockholders, has completed arrangements for establishing at Shawingan Falls a 100-ton ground wood pulp mill, a 75-ton pulp mill and a 100-ton paper mill, and have contracted with the Shawinigan Water & Power Co. for 15,000 HP. of water, and have necessary land for the storage of pulp and for their mill buildings, and have also purchased over 700 square miles of heavily timbered spruce lands on the St. Maurice River. The building of the mills is to be started at once and is to be finished by June, 1901.

THEROLD, ONT.—Chas. H. Vogel, Arch., is preparing plans for the development of water power and the erection of a pulp mill at this place.

MISCELLANEOUS CONTRACTS.

DREDGING, ETC.—Oakland, Cal.—Bids are asked until Oct. 3 for dredging and piling the slip at the Franklin St. wharf. G. A. Hammon, Clk. Dept. Pub. Wks.

DRAINAGE DITCH.—Covington, Ind.—Bids are asked until Sept. 28 for constructing a drainage ditch in Richland township. David S. Ferguson, County Aud.

DIKE.—Augusta, Ga.—Bids are asked until Oct. 13 for building training dikes on the Savannah River, near this city. Capt. Cassius E. Gillette, U. S. Engr., Savannah.

REMOVING ROCK.—Wilmington, Del.—Bids are asked until Oct. 4 for removing rock in the Christiana River, Del., as stated in our advertising columns. Wm. F. Smith, U. S. Agent.

DAM, ETC.—Johnstown, Pa.—Local papers state that the F. M. Shaffer Ice Co. will build a dam and storage house on the land recently bought. The storage house will have a capacity of 4,000 tons of ice.

DYKES.—Augusta, Ga.—Bids are asked until Oct. 13 for building training dykes in the Savannah River, near here, as stated in our advertising columns. Capt. C. E. Gillette, U. S. Engr., Savannah.

DITCH.—Canton, O.—Bids are asked, according to reports, until Sept. 27 for constructing a ditch requiring about 32,976 cu. yds. of excavation. John S. Hoover, County Surv.; W. M. Reed, Audr.

REMOVING WRECK.—Detroit, Mich.—Bids are asked until Sept. 24 for removing the wreck of the schooner "Leader" at the head of Belle Isle in the Detroit River. Lieut.-Col. G. J. Lydecker, U. S. Engr.

PILES.—New London, Conn.—Bids are asked until Sept. 25 for furnishing at the naval station, New London, a quantity of piles. A. S. Kenny, Paymaster General, U. S. Navy, Navy Dept., Washington, D. C.

DAM.—St. Albans, Vt.—The Mt. Mansfield Trout Brook Association has decided to complete the construction of the dam across the brook, to be 500 ft. long and 28 ft. high. Chas. Allen, Waterbury, has the contract.

CROSSING STONES.—Lansdowne, Pa.—Bids are asked until Oct. 5 for furnishing one carload of granite crossing stones, to be 4 to 6 ft. long, 20 ins. wide, and 6 ins. deep. H. L. Warren, Secy., P. O. Box 275.

TELEPHONE.—Racine, Wis.—The Citizens' Telephone Co. has been organized with $125,000 capital stock. The construction of the company's line will be started in 30 days by Jones & Winter, Contractors, Chicago, Ill.

RAILWAY SWITCH.—Washington, D. C.—Bids are asked until Oct. 2 for constructing a railway switch at the Government Hospital for the insane near this city, as stated in our advertising columns. E. A. Hitchcock, Secy.

RE-TOPPING SMOKE STACK.—Kings Park, N. Y.—Bids are asked until Oct. 8 for re-topping the boiler house smoke stack at the Long Island State Hospital, as stated in our advertising columns. John G. Deubert, Vice-Pres.

FIRE APPARATUS, ETC.—Pittsburg, Pa.—Bids are asked by the department of public safety until Sept. 22 for one combination water tower chemical fire engine and hose cart, three deck turrets and other fire supplies. J. O. Brown, Dir. Dept.

DREDGING.—Salt Lake City, Utah.—The proposition of dredging the Jordan River, so as to draw from Utah Lake and additional 1½ ft. in depth of the lake's surface, is being considered by the members of the canal companies and the city officials. F. C. Kelsey, Cy. Engr.

FIRE APPARATUS.—Gibbon, Minn.—Bids are asked, according to reports, until Sept. 21 for furnishing steam or gasoline fire engines, 500 ft. of cotton-jacket, rubber-lined fire hose, with 25 ft. of suction hose, and one hose cart of 500 to 800 ft. capacity. J. E. Patterson, Village Recorder.

HYDRAULIC DREDGE.—Detroit, Mich.—Bids are asked until Oct. 30 for constructing one large steel hulled, self-propelling, sea-going hydraulic dredge, with all necessary appliances, including electric light plant and distilling and refrigerating machinery, as stated in our advertising columns. Maj. Thos. H. Handbury, U. S. Engr.

PIER.—Baltimore, Md.—It is stated that the Northern Central Ry. has decided upon the improvements to be made to the Canton terminals. The company has purchased additional ground which will give 498 ft. of additional waterfront. A new pier, 120 ft. wide and 800 ft. in length, will be built, and a new yard will be laid out. W. G. Coughlin, Principal Asst. Engr., Williamsport, Pa.

CANAL.—Boston, Mass.—The survey for the proposed Cape Cod ship canal from Buzzard's Bay and Cape Cod Bay through the towns of Sandwich and Bourne, has been started by Chas. M. Thompson, of Boston, engineer in charge. The canal will be 160 ft. wide at the base on both ends, and about 125 ft. wide for some three miles in the center. The harbor and land commissioners will give a decision on the question of approval of plans at the hearing to be held on the first Thursday in December.

STEAMSHIPS.—Boston, Mass.—It is stated that the Maryland Steel Co., Sparrows Point, Md., will build three new freight steamships for Boston capitalists, which are intended for ocean trade. The vessels will be of steel, twin screw, 500 ft. in length and 58 ft. beam, with a hold capacity of 40 ft., and will have a speed of about 14 knots. Alfred Winser, of the Boston & Philadelphia Steamship Co., 338 South Delaware Ave., Philadelphia, Pa., and at Boston, is said to be interested.

PIER WORK.—New York, N.Y.—The following bids were received by the department of docks, Pier A, N. R., Sept. 17 for erecting a new wooden pier at foot of East 21st St., Manhattan: Wm. H. Jenks, 130 Pearl St., $30,700; John Gillies Co., $33,912; H. T. Spearin, 11 Broadway, $37,211; B. Rolf, 39 Cortlandt St., $40,433; Court Construction Co., Philadelphia, Pa. $43,231; Frank Pidgeon, Lexington Ave. and 42d St., $57,350. For erecting a new wooden pier at the foot of West 59th St., Manhattan: Augustin Walsh, 130 Pearl St., $85,300; W. H. Jenks, 130 Pearl St., $89,997; Court Construction Co., Philadelphia, Pa., $99,963; B. Rolf, 39 Cortlandt St., $98,733.

LOCKS AND DAMS.—Monongahela River, Pa.—The following bids were received Sept. 15 by Maj. Chas. F. Powell, U. S. Engr., Pittsburg, for constructing four locks and dams in the Monongahela River above Morgantown, Pa., (1) being for lock and dam Nos. 10 and 11; (2) for Nos. 12 and 13, and (3) for Nos. 14 and 15: The T. A. Gillespie Co., Pittsburg, (2) $277,691; C. Cramer, Pittsburg, (2) $378,506, (3) $369,901; Richard H. Brodhead, Easton, Pa., (3) $333,255; I. V. Hoag, Jr., Allegheny, Pa., (1)

$274,868, (2) $364,796, (3) $391,311; Hingston, Pihl & Cotter, Pittsburg, (1) $161,800, (2) $243,720, (3) $237,079; Jas. Stewart & Co., Pittsburg, (2) $272,211, (3) $265,278. The itemized bids will be published in our next issue.

POST IMPROVEMENTS.—New York, N. Y.—A board of officers, consisting of Maj. Wm. L. Marshall, U. E. Engr.; Maj. Henry S. Kilbourne, Maj. Samuel R. Jones, Q. M. Corps, and Lieut. Geo. C. Gatley, has been appointed to prepare a comprehensive plan for the location of new buildings, roads and walks at Fort Hamilton, N. Y., together with an approximate estimate of the cost of the work. An army board of survey has recommended to the War Department the enlargement of Governors Island by filling in of three shoals, extending over about 110 acres. It is proposed to deepen Buttermilk Channel, N.Y.H., to a mean depth of 40 ft., and to widen it to 120 ft. The additional 110 acres will make room for barracks and maneuvre grounds for 5,000 troops.

EXPOSITION.—Charleston, S. C.—It is stated that an exposition is to be held in this city from Dec. 1, 1901, to May 31, 1902, to be known as the South Carolina Interstate and West Indian Exposition. The exposition has been chartered in this state and has received the endorsement of the legislature, the city council and the local commercial organizations. The company's resources are said to be about $1,000,000. The main buildings of the exposition will be the textile, agricultural, machinery and electricity, minerals and forestry, commerce and liberal art, transportation, woman's educational and negro, and such other buildings as may be found necessary to make the exposition representative of the varied interests and great resources of the United States and of the commercial strength of the countries with which the United States has trade relations. Bradford L. Gilbert, 50 Broadway, New York, has been elected architect of the exposition. Capt. F. W. Wagener, Pres.

FOREIGN CONTRACTS AND EXPORT NEWS.

POWDER FACTORY.—Rio de Janeiro, Brazil.—Propositions are reported as wanted at once for building a government smokeless powder factory.

DRAINAGE SYSTEM.—Sorocaba, Brazil.—The municipal chamber has voted to secure a loan of $300,000 for building a drainage system in Sorocaba.

RIVER-WALL.—London, Eng.—Bids are asked until Oct. 9 for building about 5,000 lin. ft. of concrete river-wall. C. J. Stewart, Clk. County Council.

ROPE WORKS.—St. Petersburg, Russia.—The works of the W. Hott English Rope Works Co. were destroyed by fire Sept. 16, causing a reported loss of about $700,000.

DAM, ETC.—Villa Mercedes, Argentina.—Vangione & Martini are said to have been awarded the contract, at $73,160, by the minister of public works, Buenos Aires, for building a dam, etc., at Villa Mercedes.

LIGHT PLANT AND TRAMWAY.—Kertch, Crimea, Russia.—Bids are reported as wanted by the municipal authorities until Sept. 25 for furnishing and building an electric plant and tramway; pop., about 30,000.

PUMPING MACHINERY.—Gainsboro, Eng.—Bids are asked until Oct. 17 for the pumping machinery, etc., for the water-works. Deposit for forms, etc., $10. Percy Griffith, Engr., 54 Parliament St., Westminster, London.

PORT WORKS.—Pernambuco, Brazil.—Bids are asked by the Ministry of Public Works, Rio de Janeiro, Brazil, until Nov. 30 for constructing works at the Port of Recipe for loading, unloading, depositing and warehousing goods.

BREAKWATER.—Valparaiso, Chili.—The Dock Co. of Valparaiso, is said to be considering a scheme to build a breakwater about 480 ft. long, opposite Fort Valdivia. Other companies have also schemes for building river works.

HARBOR IMPROVEMENTS.—Manila, P. I.—Reports state that Gen. L. F. Wright, of the Philippine Commission, is preparing a bill for harbor improvements. It contemplates an appropriation of $1,000,000 gold for the construction of protective dockage.

OIL PLANT, ETC.—Orepuki, N. Z.—Reports state that the New Zealand Coal & Oil Co., Ltd., London, Eng., with a capital of $1,250,000, will erect a plant for making illuminating and lubricating oils, wax, tar, etc. The proposed building will cover about four acres.

PUMPING ENGINE.—Melbourne, Victoria.—Bids are reported as wanted until Jan. 9 by the Melbourne and Metropolitan Board of Works, 501 Collins St., for furnishing a pumping engine. Deposit for forms, $25. Jas. Mansergh, Engr., 5 Victoria St., Westminster, S. W., London.

DEVELOPMENT OF LANDS, ETC. — Philippine Islands.—The Philippine Land Improvement Co. has been incorporated in West Virginia with a capital of $5,000,000, by Christian Henry Hulbert, Edwin C. McCullough, Fred. L. McCandry, Henry M. Jones, and Geo. E. Wolf, all of Manila, P. I., to develop land, mines, etc., in the Philippines.

STEEL RAILS, ETC.—Indo-China.—Bids are reported as asked until Nov. 16 by the inspecting-general, ministry of colonies, Colonial office, Paris, France, for furnishing steel rails, switches, etc., for the Saigon-Tan-Linn section of the State Ry. in Indo China. The French government has authorized the borrowing of $40,000,000 to build the proposed line in Anam, from Saigon to Liang-Bian.

RAILWAY STATION, ETC.—Cadiz, Spain.—The Andalusian Ry. Co., 8 Boulevard Malesperbes, Paris, France, has been directed to build a new station at Cadiz. G. Detre, Dir., Malaga, Spain.——Bids are wanted until Sept. 29 for furnishing the metallic materials for the railway lines which form part of the projected port works at Valencia. Address the Secretariat of the Port Works, Valencia, Spain.

KNITTING MACHINES, ETC.—Mexico.—Pedro Vasseur, of Oaxaca, Mexico, wishes to receive catalogues of knitting machinery, etc., as he proposes to extend his plant. It might also be well to correspond with Thos. Furlong, Pres. Chamber of Commerce, and Leopold Gavito, Pres. City Council, both of Puebla, Mex., and with U. S. Consul Kaiser, at Mazatlan, Mex., regarding the sale of knitting machines, etc.

ELECTRIC PLANT.—Penang, Straits Settlements.—The municipal council has adopted the plans of O. V. Thomas for an electric light plant to cost about $300,000. There will be 40 2,000-c. p. arc, 950 16-c. p., and 7,500 8-c. p. incandescent lights. The annual cost of maintenance will be about $60,800 or $30,800 more than for the present oil plant of 746 9-c. p. lights. Bromhead Matthews, of the council, may be addressed.

MINING MACHINERY, ETC.—Johannesburg, Transvaal, So. A.—Reports state that the mines of the Ferreira Gold Mining Co. have been worked so unskilfully during the past year by the Boer government that it will require a large amount of money to repair the damaged machinery, etc. The mines themselves are said to be greatly damaged. It is thought that all the mines on the Rand, including the machinery, have been greatly damaged.

HAND CRANE, ETC.—Sydney, N. S. W.—Bids are asked by the Engineer-in-Chief for railway construction, Sydney, until Oct. 8 for a supply of 5 and 10-ton hand cranes, and by the town clerk of Adelaide, South Australia, until Oct. 31 for a refuse destructor, according to reports. There is said to be a good market for metal goods, etc., in Australia. The Queensland government at Brisbane, it is said, will soon ask for new bids for about 150 miles of rabbitt-proof netting.

STEEL RAILS.—Constantinople, Turkey.—Reports state that the Carnegie Steel Co., of Pittsburg, Pa., has submitted the lowest bid for furnishing steel rails for the proposed railway from Damascus to Mecca. The report does not state what company the bids were submitted to, but it is probably the Beyrouth-Damascus-Hauran Ry. Co., which is now building a line about 465 miles long. Baron de Vervo, Pres., Paris, France; P. J. Richerolles, Ch. Working Dept., Beyrouth, Palestine; Imperial Ottoman Bank, 26 Throgmorton St., E.C., London (Eng.), agents.

WIRE NETTING.—Adelaide, So. Australia.—Bids are asked by the supply and tender board office, Adelaide, until Nov. 7 for furnishing and delivering 200 miles of galvanized wire netting, 36 ins. wide, 1½-in. mesh, and 200 miles, 42 ins. wide and 1½-in. mesh, 18 s. w. G. The netting is to be delivered in lots of not less than 100 miles each, and in rolls of 100 yds. each. Conditions of tender may be seen at the office of the Agent-General, 1 Crosby Sq., London, E. C., Eng., and in a condensed form at the office of Engineering News, 220 Broadway, New York.

GAS AND ELECTRIC PLANTS.—Caracas, Venezuela.—A contract to furnish this city with illuminating and heating gas manufactured at the seaport of La Guayra, 12 miles distant, has been let to an American company. Gas coal costs $12 a ton in Caracas, at sea level only $4, hence the projected pipe line. Another American firm has the contract for an electric plant at La Guayra to furnish light and power to that place and Caracas. Frank Loomis, U. S. Minister, now on leave of absence in Washington, D. C., is quoted as stating that American capital is going into Venezuela in increasing quantities.

RAILWAY WORK.—Gold Coast, Africa.—Shelford & Son, 35a Great George St., Westminster, London, S. W., are making arrangements for a survey party to leave London in October for the Gold Coast Colony to complete the survey for a railway, beginning 40 miles from the coast and extending to Ashanti. In our issue of May 10 we stated that considerable railway work was either under way or proposed in Gold Coast, Sierra Leone and other West British African colonies, of which Shelford & Son are the consulting engineers. Bids are asked by the crown agents for the colonies, Downing St., London, S. W., until Sept. 29 for red pine creosoted ties for the proposed Uganda Ry.

ROADS AND BRIDGES.—Manila, P. I.—The Philippine Commission on Sept. 12 passed bills appropriating $1,000,000 gold from the funds of the island for highways and bridges, and $2,500 for surveys, etc. The U. S. Army engineers will have charge of the work, all specially interesting details of construction to be referred to Maj.-Gen. Arthur MacArthur, Commanding U. S. Army in the Philippines. Gen. Luke F. Wright is a member of the Commission.——The question of improving and extending the Manila Ry. from Dagupan to Bangued, Province of Abia, is being considered. It is also proposed by the company to build a sanitarium and a commercial bureau at Bangued. H. B. Briggs, 43 New Broad St., London, E.C., Eng.; H. L. Higgins, Gen. Mgr., Manila.

PORT WORKS.—Montevideo, Uruguay.—The following submitted bids to the department of fomento, Montevideo, July 31, for constructing the new port works here, at a cost of about $12,000,000: Bailey, Walker & Co., London, Eng., and Cuyo 454, Buenos Aires; Schneider & Co., Le Creusot, France; Fourgerolles, Bord & Co., of France; Societe Marseillaise de France, Marseilles; Sir John Jackson, Ltd., 3 Victoria St., Westminster, London, Eng. As Allard-Coiseau and Convreux, of France, and Pearson & Son, 10 Victoria St., S. W., London, Eng., and 15 Puente de Alvarado, Mexico, Mex., had delivered their propositions at the Uruguayan legation in London, too late to reach Montevideo in time, all further action on the bids was postponed until Aug. 20. The specifications in French are on file at the office of Engineering News, 220 Broadway, New York. Adolfo Guerard, Ch. Engr. Port Works, Montevideo.

PROMENADE, BUILDINGS, BRIDGE, ETC.—Belgium.—We are informed that a new seaside resort is to be made between Heyst and Knocke, to be called Duinbergen-sur-Mer. The plan of construction has been made by Mr. Stubben, Arch., of Cologne. It is proposed to erect a spa 1,320 ft. long, and at the end 63 ft. wide, divided into three parts, one for a promenade of 56 ft., one for vehicles of 20 ft., and a footpath of 7 ft. The villas will be built with gardens in front. This new shore is made in order to carry out the wish of King Leopold II. who desires that all the Belgian coast shall be transformed into one seaside resort.——There is to be erected at Luxemburg a single-arched stone bridge with a span of 280 ft. The width will be 53 ft. and the height of span 103 ft. It will take three years to build, and will cost $300,000.——The township of Schaerbeek, near Brussels, proposes to erect a plant for the production of gas and electric light. The decision will be made in a few months. Address Prosper Hanrez, Senateur, Engr., Brussels.

THEATRE, ETC.—Mexico, Mex.—V. Cascino, an agent for American goods in Central America and Cuba, Apartado Postal 911, Mexico City, writes us that he has an inquiry for a 1,000 sq. meter theatre building to be built of common lumber, not fire-proof. The various dimensions for the building are as follows: Entrance and vestibule, 20 × 10 m.; auditorium, 20 × 20 m.; stage and dressing room, 20 × 20 m.; metal roofing. The theatre must be ready in two months, or less, if possible. Plans and estimates are needed. Mr. Cascino does not care for business when the manufacturer or contractor does not intend to grant him exclusive agency. There is also talk of building a theatre to cost about $40,000 gold. From a real estate and construction company Mr. Cascino has an inquiry for plans and prices on a number of ready-made houses of common and fire-proof wood and sheet metal, each to contain about 15 rooms. As noted in our issue of Aug. 30, Mr. Cascino wishes bids for 50 ready-made fire-proof houses and a 4-story fireproof building, etc.

ELECTRIC POWER PLANT, RAILWAYS, ETC.—Chihuahua, Mex.—Reports state that a former American consul has incorporated a company in Illinois with a capital stock of $1,000,000 to build a power plant to produce about 8,000 HP. on San Juan branch of the Concho River. The power will be transmitted to Parral, 40 miles, and Chihuahua, about 80 miles.——The Federal District St. Ry. Co., Ltd., City of Mexico, which operates 19 lines, with a total of 58 miles, is reported to be considering the matter of building an electric road to Pueblo and branches to nearby towns. A. E. Worswick, Res. Engr., Mexico.——The Mexican National and the Texas-Mexican Ry. Cos. are making improvements to their lines. J. N. Galbraith, Supt. Northern Div., Laredo, Tex.; W. G. Raoul, Pres., 96 Broadway, New York.——Reports state that surveys for the Kansas City, Mexico and Orient Ry. are being made by Kansas City (Mo.) engineers for the proposed line between Port Stilwell, the Pacific Coast terminus, and Fuerto.——J. P. Ramsey, Gen. Mgr. Rio Grande, Sierra Madre & Pacific R. R., El Paso, Tex., and Ciudad Juarez, Mex., writes us that no work will be undertaken at this time on the proposed line from Corrallitos to Frontera, 160 miles, described in our issue of July 19.

RAILWAYS AND EQUIPMENT.—Cairo, Egypt.—A. J. Cotterill, Engr.-in-Ch. State Rys., writes us that the Egyptian government has decided to increase its floating debt by $8,500,000 to be used by the railway administration for improving the railways and the rolling stock. It has not yet been decided just how much of this sum will be spent on improvements, but it is understood that besides doubling about 56 miles of the track, it is intended to build a line from Salhied to Port Said, either direct across Lake Menzaleth, 40 miles, or along the bank of the Suez Canal. The estimated cost in either case will be about $1,500,000, including new rolling stock. Mr. Cotterill adds that the above extensions will necessitate the ordering of a very considerable amount of rolling stock, of which America will get its share. During the last year 400 30-ton coal trucks and 20 Baldwin 72-ton engines have been received from America. The Brooks Locomotive Works, Paterson, N. J., has just delivered two 107-ton engines. The railway engineers are strengthening the tracks and bridges. The Brown Hoisting & Conveying Machine Co., Cleveland, O., has delivered six steam coal hoists at Alexandria. The railway administration is about to ask for bids for 7,500 tons of heavy section Vignole rails. Lt.-Col. E. P. C. Girouard, R. E., Pres., Cairo.

BUILDINGS, MANUFACTURING PLANTS, ETC.—Monterey, Mex.—The Cia Manufactura de Cajas de Sigurided de Monterey has been formed with a capital stock of $225,000, to build a plant to make steel safes, vaults, etc.——The Anheuser-Busch Brewing Association, 9th and Pestalozzi Sts., St. Louis, Mo., is interested in the proposed brewery to be built in Monterey, to cost about $300,000.——Reports state that contracts will soon be placed for the materials and machinery for the proposed steel rolling mills near Monterey. The foundations for the building have been completed. The company has a capital of $10,000,000 Mexican money. Vincente Farrara, Pres., Monterey; William White, Mgr., Pittsburg, Pa.; Eugene Kelley, Vice-Pres. East & West R. R. Co., 36 Wall St., New York, is interested.——The Mexican National R. R. Co. is building a warehouse 72 × 502 ft. A. M. Slager, Engr.-in-Charge; W. S. Raoul, Pres., 96 Broadway, New York.——The "Manufacturers' Record" states that there are openings here for manufacturing enterprises. The federal and state governments give liberal concessions and bonuses to capitalists to establish manufacturing plants. There is room here for a first-class foundry and machine shop. A company with $250,000 in gold will receive a liberal concession. There is only one here, and it cannot begin to supply the demands for that class of work. There is an opening here for car shops and the manufacture of railway rolling stock and equipments. All, or nearly all, of the material for their construction is admitted free of duty.

TELEPHONE SYSTEMS.—Russia.—In our issue of Aug. 23 we stated that bids were wanted at once for improving and extending the telephone systems in St. Petersburg, Moscow, Odessa, Riga and Warsaw, and that the present systems owned by the Bell Telephone Co., of New York, will be transferred to the Russian government Nov. 1, 1901. We have been informed by W. Arnd, Nowy-Swiat 22, Warsaw, that this is not quite correct, but that the concessions granted to the Bell company in the above cities will expire about next June. Bids will be asked by the government of Russia and foreign companies for the purchase of concessions for 18 years in the above-named cities. At the end of 18 years the government may either acquire the systems by purchase or prolong the term. On account of the high rates to subscribers, the telephone systems have been very little developed. The following are the number of subscribers and the rates in the large cities:

	Subscribers.	Ru.
St. Petersburg	4,100	250 ($127.50)
Moscow	2,950	250 ($127.50)
Warsaw	2,000	150 ($76.50)
Riga	1,800	150 ($76.50)
Odessa	1,500	150 ($76.50)

By lowering of these rates it may be assumed that the number of subscribers will be increased. At present the whole system of the Bell Co. is of old construction, and it should be replaced by modern construction and underground wiring, if possible. A report of the Bell Co. shows that by an investment of $375,000, a profit of $316,163. Mr. Arnd wishes to correspond with parties desiring to bid.

TRAMWAY MATERIALS.—Cardiff, Wales.—The following bids were received by W. Harpur, Borough Engr., Cardiff, for furnishing the materials for the proposed new electric tramway: Rails, 1,000 tons, and fish-plates, 40 tons—Compagnie Commerciale, Reunis, £10,720; Bolckow, Vaughan & Co., Middlesbrough, £10,610; Lorain Steel Co., Lorain, O., U. S. A., £9,970; W. Davis, Swansea, £9,810; Barrow Hematite Steel Co., Barrow-in-Furness, £9,712; Leeds Steel Works, Leeds, £9,420; P. & W. McLellan, Glasgow, £9,057; Dick, Kerr & Co., London and Glasgow (accepted), £8,522; Societe Anonyme, Ougree, Brussels, £8,370. Fish bolts and nuts (Ibbotson's patent)—Compagnie Commerciale, £199; P. & W. McLellan, £180; Dick, Kerr & Co., £180; Wilkes, Limited, Darlaston, £171; Ibbotson Bros., Sheffield (accepted), £170; Askham Bros. & Wilson, Sheffield, £166; Patent Nut & Bolt Co., London Works, near Birmingham, £148; Bayliss, Jones & Bayliss, Wolverhampton, £148. Sole plates (Marshall's patent)—Wilkes, Limited, £698; Dick, Kerr & Co., £675; P. & W. McLellan, £615; Askham Bros. & Wilson (accepted), £607; W. Davis, £561; Patent Nut & Bolt Co., £515; Bayliss, Jones & Bayliss, £508; Compagnie Commerciale, £270. Points and crossings—Compagnie Commerciale, £614; Dick, Kerr & Co., £398; Askham Bros. & Wilson (accepted), £355; P. & W. McLellan, £341. Drain rails (Dawson's patent)—Compagnie Commerciale, £540; Dick, Kerr & Co., £414; P. & W. McLellan, £378; Askham Bros. & Wilson (accepted), £378. Tie-bars—Compagnie Commerciale, £815; P. & W. McLellan, £695; Phoenix Bolt & Nut Co., Handsworth, Birmingham, £620; Horton & Son, £585; Patent Nut & Bolt Co., £578; Askham Bros. & Wilson, £568; Dick, Kerr & Co. (accepted), £565; Bayliss, Jones & Bayliss, £565. Copper bonds (Neptune)—Dick, Kerr & Co., £661; Felten & Guilleaume, Carlswerk, Cologne (accepted), £618; J. A. Roebling's Sons Co., Trenton, N. J., U. S. A., £540.

TRAMWAYS.—England.—Chas. T. Yerkes, formerly owner of the Chicago street railways, now of New York, is reported to have denied the recent report that he had purchased the franchise and all of the rights of the Charing Cross, Euston & Hampstead R. R., London, and had formed an American syndicate to build a tunnel railroad from Charing Cross to Hampstead Heath, a distance of 4½ miles, and an extension of two miles from Camden Road to Kentish Town, to cost about $12,000,000. However, it is stated, negotiations are probably being carried on for the transfer of these and other lines to an American syndicate, of which Blair & Co., Bankers, 33 Wall St., New York, and B. M. Baruch, of A. A. Housman & Co., Brokers, Broad St., New York, are interested.——The New York "Times" has the following report regarding American capital in London: All kinds of rumors are current regarding the coming of American enterprise and capital to relieve London's congested traffic. That the metropolis is far behind every provincial centre in many things that go to make up a modern city is beginning to be realized by Englishmen as well as by Americans; and a demand is arising for new blood capable of solving transit problems. Connected with this congestion is the problem of housing the working classes, at which the closest students of London's social conditions are aghast, though they readily perceive that the only remedy, as in the case of lessening the congestion of the street, lies in a widespreading network of means of rapid transit, which, under the County Council rules, must hereafter be subterranean. London, therefore, will gladly welcome American aid, and there is no lack of indications that Americans are actively seeking investments in this and other directions. There is scarcely a hotel in London that does not contain an important representative of some American industry or enterprise which he is actively engaged in promoting. There is much gossip over the statement that Mr. Yerkes has secured control of the stock of

the Charing Cross, Euston & Hampstead Underground R. R., and it is hinted that the denial made in this connection by Mr. Smith, the secretary of the company, is by no means conclusive. It is even said that he has not only secured this valuable opening, but that his coming to London means that he will control the electrical traction system of the metropolis. Nor is London the only place where American capitalists are engaged in electrical enterprises. The next few weeks will probably see the completion of plans for the construction and consolidation of a system of 120 miles of suburban lines connecting Manchester, Liverpool, Bolton and a score of smaller towns in the most populous district of northern England. This project is in the hands of ex-Congressman Tom L. Johnson, of Cleveland, O., and New York, and Albert L. Johnson, of 354 West End Ave.

CONTRACT PRICES.

WATER-WORKS.—Smyrna, N. Y.—The following bids were received Sept. 13 for furnishing the materials and for constructing works; E. F. Musson, Engr., Norwich, N. Y.; C. E. Ferris, Pres. Bd. Trustees:

Bids Received at Smyrna, N. Y., Sept. 13, 1900, for Furnishing and Constructing Water-Works.

Bidder.	Laying pipe, a lin. ft. 6-in.	4-in.	A cu. yd. Excavation Earth.	Rock.	Rosndle cem't masry.	Concrete.	Well.	Engine and pump.‡	Total.
Armstrong & Newhall, Stapleton, N. Y.	$0.18	$0.16	$0.19	$1.25	$4.25	$4.25	$490.00	$1,045	$8,090
C. R. Lewis, Ilion, N. Y.	.21	.18	.28	2.50	5.00	5.00	900.00	.....	.....
E. W. Moxley, Jefferson, N. Y.	.22	.19	.32	3.65	7.70	7.70	1,144.36	.....	.....
Henry M. White & Co., Oneida, N. Y.	.21	.18	.14	2.00	4.00	4.00	386.00	750	7,309
Wm. T. O'Connor & Co., Syracuse, N. Y.	.17½	.15½	.25	1.00	4.25	4.25	700.00	1,075	7,601
*Stowel & Diebolt, Buffalo, N. Y.	.1[illegible]½	.16	.28	2.00	4.25	4.75	.....	.....	.....
†J. M. Siegrist & Co., Utica, N. Y.	.22	.20	.30	2.00	6.00	5.80	.....	.....	.....

*Gould pump (150,000-gallon), $394.00. †Ramsey pump, $375; Lambert gasoline engine, $592. Otto Gas Engine Co., $725. ‡12-HP. gasoline engine and 150,000-gallon power pump.

Pipe Sewers, Etc.

Bidder.	Pipe, a ton.	Specials, a lb.	Valves 6-in.	4-in.	V'lve bxs.	Hydrants
C. Millar & Sons, Utica	$23.45	$0.024	$10.00	$6.50	$3.75	$21.50
Chapman Valve Co.*	.....	....	11.25	7.80	....	20.89
Sweet & Doyle, Cohoes	.....	....	10.85	6.75	3.00	22.00
Kennedy Valve Co.†	.....	....	9.50	6.00	2.90	20.50
Bourbon C. & B. Wks‡	.....	....	9.70	6.15	2.83	19.81
Coffin Valve Co, Boston	.....	....	9.90	6.00	3.00	§18.95
Cayuta Whl&Fdry Co‖	.....	....	11.25	6.95	2.65	21.95
Eddy Valve Co.‡	.....	....	11.50	7.25	2.80	23.00
U.S. C.-I. Pipe Co**	23.50¹	.02½	....	....	....	.....
Dimmick Pipe Co.††	28.00	.02¼	....	....	....	.....
Warren F. & M. Co.‡‡	23.80	.024	....	....	....	.....
R.D.Wood & Co., Phila.	23.80	.02¼	11.00	6.90	2.40	22.50
J. F. Fox & Co., N. Y.	24.44	.02¼	....	....	....	.....

*Indian Orchard, Mass.; †New York; ‡Cincinnati, O.; §With frost case, $2.50 extra; ‖Sayre, Pa.; ¶Waterford, N. Y.; **Chicago, Ill.; ††Birmingham, Ala.; ‡‡New York; ¹4-in. pipe, $22.80.

WATER PIPE.—Boulder, Colo.—The contract for furnishing 4,000 ft. of 16-in. and 3,800 ft. of 12-in. cast-iron water pipe has been let to R. D. Wood & Co., Philadelphia, Pa., at $27.50 a ton, f. o. b. cars Boulder. Two Colorado firms bid $30.50 a ton. R. D. Wood & Co. are also reported to have been awarded the contract at $22.80 a ton for furnishing Holyoke, Mass., with 1,000 tons of 24-in. pipe, this being the lowest price in that city in several years.

MAIN SEWER.—Cleveland, O.—The following bids were received Aug. 29, 1900, for section 5 of the Walworth Run main sewer, the total bids, etc., for which were noted under Sewerage last week; all are local bidders:

Bids Received at Cleveland, O., Aug. 29, 1900, for Constructing Sec. 5, of Walworth Run Main Sewer.

Quantities.		W. C. Geyer.	M. F. Bramley, 41 Central Ave.	J. Connelly & Son, 81 Huntingdon St.	Beers & Doolittle, 323 Columbus St.	Clements Bros. Con. Co., 23 Vincent St.	Reaugh Const'n Co., Garfield Bldg.	North'n Ohio Pvg & Con. Co., Case Library Bldg.
Excavation	22,000 cu. yds.	$1.25	$2.50	$1.20	$1.95	$0.70	$2.50	$2.00
No. 1 shale brick	1,100 sq. yds.	9.00	9.00	15.00	9.60	10.00	15.00	14.00
No. 2 shale brick	20 " "	8.00	9.00	12.00	7.50	9.00	14.00	14.00
Portland cement concrete	1,900 cu. yds.	7.00	6.20	8.00	6.60	7.00	10.00	12.00
Natural cement concrete	4,300 " "	4.50	4.70	6.00	5.60	4.00	7.00	8.00
Rock-faced ashlar	320 " "	10.00	10.00	25.00	9.60	18.00	20.00	16.00
Cut stone	100 " "	2.00	1.00	2.00	.40	1.00	2.00	2.00
Rubble stone masonry	95 " "	8.00	9.00	18.00	8.00	8.00	15.00	10.00
Steel girders	280,000 lbs.	.05	.08	.05	.035	.14	.05	.05
Flooring	50,000 ft. B.M.	30.00	42.00	65.00	46.00	40.00	30.00	40.00
Clay puddle	500 cu. yds.	2.00	2.00	3.00	3.50	2.00	4.00	2.00
Wrought iron	11,000 lbs.	.15	.03	.06	.04	.10	.05	.06
T. and G. piling	72,000 ft. B.M.	100.00	70.00	75.00	50.00	150.00	100.00	100.00
Bracing, waling, etc.	25,000 " "	100.00	40.00	60.75	50.00	150.00	30.00	60.00
Round piling foundation	85,000 lin. ft.	.25	.45	.75	.58	.75	.55	.60
Round piling in cofferdam	3,000 " "	.25	.50	.70	.48	.75	.75	.60
Sheet piling and bracing	75,000 ft. B.M.	20.00	20.00	20.00	22.00	25.00	20.00	30.00
Catchbasins	2 each	30.00	50.00	50.00	35.00	22.00	100.00	40.00
Catchbasin pipe	40 lin. ft.	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Cast-iron inlet and cover	900 lbs.	.04	.03	.03	.035	.04	.05	.05
Cast-iron manholes	800 "	.04	.03	.03	.035	.03	.05	.05
Total		$126,638	$174,386	$187,920	$165,811	$189,569	$205,770	$204,765

PAVING.—Geneva, N. Y.—The following bids were received Sept. 6, 1900, for about 4,000 yds. of brick and block paving; E. Seybolt, Supt.:

Quantities.		*Henson & Hennessy, Geneva.	Seyman & Newkirk, Fulton.
Wood block	1,200 sq. yds.	$1.22	$3.25
Brick	2,400 " "	1.825	2.10
Medina stone	400 " "	2.65	3.35
4-in. curb	2,500 lin. ft.	.70	.75
3-in. drain tile	2,500 " "	.10	.12
12-in. sewer	200 " "	.50	1.00
Catchbasins	4 each	30.00	50.00
Excavation	1,000 cu. yds.	.35	.35
Total		$9,462	$13,905

*City will furnish the wood block.

PAVING.—Toledo, O.—The following bids were received Sept. 3, 1900, for 24,000 yds. of paving in several streets: Cleveland Trinidad Paving Co., asphalt, $2.10 and $2.15; Warren-Scharf Asphalt Paving Co., $2.25, $2.28 and $2.65; G. H. Cole, brick $1.57 and $1.70, asphalt $2.20, asphalt block $2.25; C. W. Ryan, asphalt block, labor only, $1, brick $1.45 to $1.51; Jas. Shern, asphalt block, $2.05; H. P. Streicher, asphalt block, $2.50 and $3.00, brick $1.59 to $1.69; Kerlin Bros Co., asphalt block $2.50 and $3.25, brick $1.60 and $1.65; J. J. Leith, asphalt block $2.19, brick $1.65 and $1.75; Carland & Warner, asphalt block $2.20 and $2.25, brick $1.60 and $1.66; John McMahon, asphalt block $2.15 and $2.29, brick $1.57 and $1.59, sheet asphalt $2.20; C. W. McKinney, asphalt block $2.10 and $2.20, sheet asphalt $2.35, brick $1.59 and $1.69; Garrigan Bros., asphalt block $2.20 and $2.35, brick $1.67 to $1.70; O'Sullivan & O'Shern, sheet asphalt $2.30, asphalt block $2.20, brick $1.65; Gus Abele, asphalt block $1.95, brick $1.53; Harry G. Jennison, asphalt block $2.20, brick $1.57.

ASPHALT PAVING.—Omaha, Neb.—The Barber Asphalt Paving Co., New York, has submitted the lowest bid at $1.93 a yd. for asphalt paving in 24th St., five-year guaranty, or $2.17 for a ten-year guaranty. W. P. Mumaugh was lowest on brick on the 24th St. at $1.21 per sq. yd., and on the Dodge St. $1.80. C. D. Woodworth submitted the lowest bid on curbing at 62 cts. per lin. ft. on Berea and Bedford stone and 68 cts. on Lyons stone.

DEEP WELL.—Mount Ayr, Ia.—Frank Shafstall, Redding, Ia., is said to have been awarded the contract at $1,000 for sinking a 6-in. well 1,000 ft. deep for an increased water supply.

BEAMS, ANGLES AND PLATES.—New London, Conn.—The following bids were received by Maj. S. S. Leach, U. S. Engr., New London, Sept. 15, 1900, for furnishing 144,728 lbs. of I-beams, angles and plates:

Bidder.	Per lb., cts.	Total.
American Bridge Co., 100 B'way, N.Y.	2.0	$2,894.56
Pencoyd Iron Works, 89 State St., Boston*	1.73	2,503.77
N. J. Fdry & M. Co., 26 Cortlandt St., N.Y.	2.1	3,039.29
G. F. Bullard & Co., 8 Oliver St., Boston.	1.8	2,605.10
C. F. Cheney, New London, Conn.	2.75	3,980.02
Boston Bridge Works, New Britain, Conn.	2.24	3,314.27

*Accepted.

WATER-WORKS.—Smithfield, Va.—The following bids were received Sept. 10, 1900, by the Smithfield Water Co. for furnishing the materials and for constructing works, as advertised in Engineering News, (1) being for a 62,000-gal. tank and 85-ft. tower, (2) for 57 tons of 8-in. cast-iron water pipe, (3) for 230 tons of 6-in. pipe, (4) for 55 tons of 4-in. pipe, (5) for four tons of specials, (6) for 25 fire hydrants, (7) for four 8-in. valves, (8) for seven 6-in. valves, (9) for eight 4-in. valves, (10) for 19 extension valve boxes, (11) for a 25-HP. gasoline engine, (12) for a 500,000-gallon power pump, (13) for a 250,000-gallon power pump, (14) for a 500,000-gallon steam pump, (15) for a 50-HP. boiler and heater, feed pump and stack: White & Middleton, (11) $1,252; Chicago Bridge & Iron Works, (1) $4,426; Foos Gas Engine Co., (11) $915; Bourbon Copper & Brass Works, (6) $15.85, (7) $15, (8) $10, (9) $6.60, (10) $2.60; Glamorgan Pipe & Foundry Works, (2) $21.45, (3) $21.70, (4) $22, (5) $45, (6) $19.20, (7) $13.80, (8) $8.60, (9) $5.60, (10) $2.10; Rensselaer Mfg. Co., (6) $21.05, (7) $14.65, (8) $9.95, (10) $2; R. D. Wood & Co., (2) $21.95, (3 and 4) $22.45, (5) $50, (6) $21.50, (7) $16, (8) $11, (9) $6.90, (10) $2.25; Kennedy Valve Mfg. Co., (6) $20.75, (7) $14.70, (8) $9, (9) $5.50, (10) $2.60; Lambert Gas Engine Co., (11) $967; Deane Steam Pump Co., (12) $863, (13) $530, (14) $437; Tippett & Wood, (1) $4,560; J. D. Westbrook, (15) $397. The Glamorgan Company secured the contract for the pipe and valves, the Deane company that for the 500,000-gallon pump, the Kennedy company that for the hydrants and J. D. Westcott that for the boiler, heater, feed pump and stack. New bids are asked until Sept. 25 for the tank and tower and the 250,000-gallon power pump. Hite-Smith & Minshall, Engrs., 605 Columbia Bldg., Norfolk, Va.

ASPHALT PAVING.—Altoona, Pa.—The contract for 6,433 sq. yds. of sheet asphalt paving in 11th Ave. has been let to the Alcatraz Paving Co., Philadelphia, at $2.47 a yd., five-year guaranty. The wearing surface to be 1½ ins. thick, the binder one inch, and the concrete foundation 6 ins. Harvey Linton, Cy. Engr.

DREDGING.—New York, N. Y.—The following bids were received Sept. 17, 1900, for dredging North River, between the Battery and 159th St.: Henry Du Bois Sons Co., 119 South St., 25 cts. a yd; Morris & Cumings Dredging Co., State St., 26 cts.; W. H. Beard Dredging Co., 11 William St., 26.9 cts.; East and Harlem Rivers, Manhattan, Brooklyn, Queens and Bronx: W.H. Beard Dredging Co., 28.9 cts.

MACADAM PAVING.—Camden, N.J.—The following bids were received Sept. 8, 1900, for paving 2⅛ miles of macadam road, from Coffin's Corners to the White House stone road: Dennis Roe, Trenton, 25 cts. for excavation, $1.25 for telford, 20 cts. for drainage, total $15,[illegible]; J. B. Shanley, 20 cts., $1.10, 20 cts., $14,300, respectively; J. Moore Ireland, Trenton, 25 cts., $1.10, 12 cts., $14,390 respectively.

INDUSTRIAL NOTES.

THE SHARON BOILER WORKS, Sharon, Pa., has a contract for eight boilers of 300 HP. for the Birmingham furnaces of the Republic Iron & Steel Co.

THE PENNSYLVANIA STEEL CO., Steelton, Pa., has an order for 6,500 tons of 85-lb. steel rails for the East India Ry. Co.

THE McCLINTIC-MARSHALL CONSTRUCTION CO., Pottstown and Pittsburg, is reported to have selected a site, consisting of 14 acres, at Monessen, on which it will build a new structural steel plant having a capacity of 7,000 tons of structural steel monthly.

THE PENN BRIDGE CO., Beaver Falls, Pa., has a contract for a $26,000 bridge at Slatington, Pa.

THE NEW ENGLAND STRUCTURAL CO., Boston, is building for the Boston & Albany R. R., a new steel drawbridge to replace the one over Chelsea Creek, near Boston. The company also has a contract for furnishing a double-track plate girder bridge for the railway at Ware, Mass.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, has an unusually large number of foreign orders on hand, including 22 freight locomotives for New Zealand and 6 for Spain. It has just shipped to the Borden & South Coast Ry., of Ireland, the first American locomotives to be used in that country.

THE PRESSED STEEL CAR CO., Pittsburg, reports an order for 70 steel cars for the Great Southern of Spain R. R. They conform in their make up to the American standard ore car of 80,000 lbs. capacity. In Spain they term these cars "bogie iron ore wagons," and a peculiarity in the construction is that a timber shelter for use of brakemen is specified on seven cars out of the seventy, presumably one to each train.

THE QUIMBY ENGINEERING CO., 915 Ridge Ave., Philadelphia, is the name of a new company that has succeeded Mr. Thomas Shaw at the same address. It will continue the manufacture of Shaw's mercury pressure gages, steam mufflers, propeller pumps, and other specialties. Mr. Henry H. Quimby, formerly Chief Engineer Phoenix Iron Works, is proprietor of the new company. Mr. Frederick F. Kauffmann, formerly in charge of the mechanical part of Mr. Shaw's business, is superintendent.

THE KINNEAR MFG. CO., Columbus, O., has just completed a steel rolling door 35 ft. 6 ins. wide by 20 ft. high, for a car house at Worcester, Mass. This door is claimed to be the largest, by far, ever constructed. It is built on the same principles as all Kinnear steel rolling doors, and, regardless of its size, is said to be operated with the greatest ease. The Kinnear Mfg. Co. reports a large number of orders for doors for car house purposes, as well as for all classes of railway and public buildings; the automatic steel rolling doors, shutters and partitions having found special favor among purchasers.

THE NATIONAL ASPHALT CO., 11 Broadway, New York, has been incorporated in New Jersey to consolidate the following companies: Asphalt Company of America, Pennsylvania Asphalt Paving Co., Gilson Asphaltum Co., New Jersey Mexican Asphalt Co., Manhattan Trap Rock Co. The entire obligations of the Asphalt Company of America, organized last year, including its $30,000,000 collateral gold certificates, are assumed by the new company. It also acquires control through the new companies mentioned above of the various Gilson interests in Missouri, Utah and other places, asphalt properties near Tuxpan, Mexico, and three valuable deposits in Venezuela, as well as of valuable quarry lands at Upper Nyack, N. Y. Pres., A. L. Barber; First Vice-Pres., John M. Mack; Second Vice-Pres. and General Counsel, Gen. Avery D. Andrews; Secy. and Treas., Arthur W. Sewall.

NEW COMPANIES.—Union Light & Heat Co., Dover, Del.; $200,000; J. J. Graf, Cincinnati, O.; G. Douglas, Norwood, O.

Middleburg & Schoharie Electric Light, Heat & Power Co., Middleburg, N. Y.; $40,000; D. D. Frisbie, D. Beckman.

South San Francisco Power & Light Co., South San Francisco, Cal.; $50,000; L. Hough, W. Clayton, W. J. Martin, of San Francisco.

Britt Light & Power Co., Britt, Iowa; $12,000; R. H. Walker, A. J. Ashby.

Standard Electric Co., Trenton, N. J.; $25,000; J. M. Sawyer, B. L. Cates, of Philadelphia, Pa.; F. C. Lowthrop.

Downington Gas Co., Philadelphia, Pa.; $1,000; F. H. Shelton, J. Gribbel, S. E. Simmonds.

Medina Gas Co., Medina, N. Y.; $40,000; A. L. Fennessy, C. J. Shearn, New York; Joseph J. Cunningham, Brooklyn.

Lebanon Gas Co., Wilmington, Del.; $40,000; F. Brandon, Lebanon, O.; E. L. Canby, G. W. Kimball.

Marion Gas Co., Marion, Ind.; $400,000; J. H. Reed, J. D. Callery, W. B. Carson, J. C. McDowell.

Newtown & Flushing Gas Co., Long Island City, N. Y.; $300,000; H. R. Wilson, New York; T. W. Stephens, Montclair, N. J.; E. J. Patterson, Plainfield, N. J.

Mail Delivery Notice.

Complaints are frequently sent to us because subscribers do not receive their papers on time. The first pages of Engineering News go to press on Monday each week, the next 32 pages on Tuesday, and the remaining pages, including "Wants," "Proposals" and "For Sale" cards, early on Wednesday. All papers for Boston, Philadelphia, Washington and Greater New York should be received upon the first delivery Thursday. The last of the entire edition is in the New York post-office soon after 6 o'clock Thursday morning. If your paper is not received promptly we suggest that you make a complaint in writing to your local post-office officials. This will be investigated and the letter forwarded to the office where the delay occurs.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS.
Avail Yourself of this Paper when Bids are Wanted for Construction or for Furnishing Supplies.